Environment Canada Environnement Canada

Historical Streamflow Summary

Manitoba

Sommaire chronologique de l'écoulement

TO/JUSQU'À **1990**

INLAND WATERS DIRECTORATE
WATER RESOURCES BRANCH
WATER SURVEY OF CANADA
OTTAWA, CANADA, 1991

DIRECTION GÉNÉRALE DES EAUX INTÉRIEURES
DIRECTION DES RESSOURCES EN EAU
DIVISION DES RELEVÉS HYDROLOGIQUES DU CANADA
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PREFACE

This publication was prepared by personnel of the Water Survey of Canada Division under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa.

The basic data were collected and compiled under the supervision of the Regional Chief of the Water Resources Branch at Winnipeg, Manitoba.

The co-operation received from provincial agencies and from other organizations is gratefully acknowledged.

PRÉFACE

La Division des relevés hydrologiques du Canada, sous l'autorité du Directeur des ressources en eau du ministère de l'Environnement (Ottawa), a préparé la présente publication.

On a recueilli et compilé les données de base sous la supervision du Chef régional de la Direction des ressources en eau, à Winnipeg (Manitoba).

On remercie vivement les organismes provinciaux, ou autres, pour la coopération qu'ils ont apportée.

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INTRODUCTION

The Water Resources Branch of the Department of the Environment herein presents a summary of monthly and annual mean discharges and annual extremes of discharge for rivers in Manitoba for which streamflow data to 1990 inclusive have been collected by the Water Survey of Canada. This edition supersedes all previous editions.

A program for the collection and publication of Surface Water Data has been carried on across Canada for over 75 years. The results of these hydrometric survey investigations have been published annually.

Discharge data are available on CD ROM, diskette or magnetic tape for computer processing. These data and details on individual stations and related records, as well as recent data which have not yet been published may be obtained upon application to:

Regional Chief,
Water Resources Branch,
Department of the Environment,
521 Federal Building,
269 Main Street,
Winnipeg, Manitoba.
R3C 1B2
(204 949-2434)

or to the Water Resources Branch, Department of the Environment, Ottawa, Ontario, K1A 0H3 (819 997-2098).

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INTRODUCTION

La Direction des ressources en eau du ministère de l'Environnement présente un sommaire des moyennes mensuelles et annuelles de l'écoulement et des extrêmes annuels de cours d'eau du Manitoba, pour lesquels la Division des relevés hydrologiques du Canada a obtenu des données jusqu'en 1990 inclusivement. La présente publication annule toutes les éditions antérieures.

La cueillette et la publication de données sur les eaux de surface sont en oeuvre depuis plus de 75 années au Canada. Les données obtenues à partir des relevés hydrométriques sont publiées annuellement.

On peut se procurer les données sur l'écoulement sous forme de disque compact à mémoire morte, de disquette ou de ruban magnétique pour traitement sur ordinateur. En s'adressant aux endroits ci-après, on peut obtenir ces données, des renseignements supplémentaires sur certaines stations particulières et divers relevés ainsi que des données récentes non encore publiées:

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
521 Édifice fédéral
269, rue Main
Winnipeg (Manitoba)
R3C 1B2
(204 949-2434)

ou au Direction des ressources en eau, ministère de l'Environnement, Ottawa (Ontario), K1A 0H3 (819 997-2098).

ORGANIZATION AND HISTORY OF HYDROMETRIC SURVEY OPERATIONS

Hydrometric surveys in Manitoba were conducted by the Water Survey of Canada under agreement with the Province of Manitoba. The provincial authorities contributed to the cost of the basic field investigations which were carried out in accordance with mutually agreed-upon plans.

Stream-gauging work started in Manitoba when the Winnipeg River Power Survey was commenced in 1911 by the Dominion Water Power Branch. The Manitoba Hydrographic Survey was organized in early 1912 and the survey was expanded to embrace all Manitoba and the Lake of the Woods in Ontario. Following the transfer of the natural resources of Manitoba to provincial control as of October 1, 1930, a co-operative agreement was arranged with the Government of Manitoba for the continuance of the hydrometric survey by the federal government. Although this agreement was terminated in 1933, work was continued by the federal government under letter arrangement until 1975. A co-operative agreement was signed with the Government of Manitoba on February 18, 1975 and implemented on April 1, 1975. The agreement provides that water quantity surveys will be continued by the federal government on a shared cost basis.

ORGANISATION ET HISTORIQUE DES RELEVÉS HYDROMÉTRIQUES

La Division des relevés hydrologiques du Canada a effectué des relevés hydrométriques au Manitoba en vertu de l'accord conclu avec les autorités provinciales, qui ont contribué au coût des recherches de base réalisées sur le terrain, après entente mutuelle sur leur programme.

C'est en 1911, lorsque la Direction fédérale de l'énergie hydraulique a fondé le *Winnipeg River Power Survey*, que cet organisme a effectué les premières observations relatives aux cours d'eau au Manitoba. Avec la création du *Manitoba Hydrographic Survey* au début de 1912, le champ des relevés s'est élargi pour englober tout le Manitoba et le lac des Bois en Ontario. Après que la responsabilité des ressources naturelles du Manitoba est passée au gouvernement provincial, le 1er octobre 1930, le Manitoba et le gouvernement fédéral ont conclu un accord qui permettait à ce dernier de poursuivre les relevés hydrométriques. L'accord a pris fin en 1933, mais en vertu d'une lettre d'entente, le gouvernement fédéral a continué d'exécuter les observations hydrométriques jusqu'en 1975. Le 18 février 1975, le gouvernement du Manitoba a signé un nouvel accord, qui est entré en vigueur le 1er avril 1975, renfermant des dispositions grâce auxquelles le gouvernement fédéral s'occupera du programme de relevés hydrométriques et partagera le coût des mesures avec la province.

CO–OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Runoff and other data have been mutually exchanged and stream-gauging operations have been facilitated by the assistance received from a number of organizations.

On waters adjacent to the International Boundary, certain gauging stations are maintained by Canada (or the United States) under agreement with the United States (or Canada) and the records are collected and compiled in a manner equally acceptable to both countries. These stations are designated as "International Gauging Stations" in this publication.

For the valuable assistance and co-operation received in obtaining hydrometric survey records, the Water Survey of Canada is indebted to many organizations.

The names of these organizations are given in the Surface Water Data Reference Index and the annual Surface Water Data publications. The names of agencies who have contributed data for publication are identified herein under individual stations.

COOPÉRATION ET REMERCIEMENTS

Le travail entrepris en coopération avec d'autres organismes représente une partie importante des activités de la Division des relevés hydrologiques du Canada. On a maintenu une étroite collaboration avec les organismes, publics ou privés, qui s'intéressent aux ressources en eau. On a échangé des données portant sur l'écoulement ou sur d'autres points, et l'assistance fournie par beaucoup d'organismes a facilité les opérations de jaugeage.

Pour ce qui est des eaux adjacentes à la frontière internationale, certaines stations de jaugeage dépendent du Canada (ou des États-Unis) suite à un accord avec les États-Unis (ou le Canada), et les relevés sont faits et compilés de façon à satisfaire les deux pays. Ces stations sont nommées «Stations internationales de jaugeage».

La Division des relevés hydrologiques du Canada est redevable à maints organismes de l'aide et de la collaboration précieuses qu'ils lui ont apportées lors de la prise des relevés hydrométriques.

On trouvera les noms des organismes dans l'*Index de référence des données sur les eaux de surface* et dans les publications annuelles des *Données sur les eaux de surface*. Les noms des organismes qui ont fourni des données apparaissent dans la présente publication sous les stations particulières.

EQUIVALENTS OF MEASURE

The following list of convenient equivalents of measure includes the relationship between imperial units and the International System of Units (SI).

1 inch equals 2.54 cm (centimetres)
1 foot equals 0.3048 m (metre)
1 statute mile equals 1.6093 km (kilometres)

1 cm (centimetre) equals 0.393 70 inch
1 m (metre) equals 3.2808 feet
1 km (kilometre) equals 0.621 37 mile

1 acre equals 43 560 square feet
1 acre equals 0.404 69 ha (hectare)
1 square mile equals 640 acres
1 square mile equals 2.5900 km^2 (square kilometres)
1 square mile equals 259.0 ha (hectares)

1 ha (hectare) equals 10 000 m^2 (square metres)
1 ha (hectare) equals 2.4710 acres
1 km^2 (square kilometre) equals 0.386 10 square mile

1 cubic foot equals 6.2288 imperial gallons
1 imperial gallon equals 4.546 09 L (litres)
1 imperial gallon equals 1.2010 U.S. gallons
1 U.S. gallon equals 0.133 68 cubic foot
1 cubic foot equals 0.028 317 m^3 (cubic metre)
1 m^3 (cubic metre) equals 35.315 cubic feet
1 dam^3 (cubic decametre) equals 1000 m^3 (cubic metres)
1 dam^3 (cubic decametre) equals 1 mm (millimetre) over 1 km^2 (square kilometre)

1 cubic foot per second for one day equals 1.9835 acre-feet
1 cubic foot per second for one day covers one square mile to a depth of 0.037 19 inch
1 acre-foot equals 1.2335 dam^3 (cubic decametres)
1 m^3/s (cubic metre per second) for one day equals 86.4 dam^3 (cubic decametre)
1 m^3/s (cubic metre per second) for one day covers one square kilometre to a depth of 0.0864 m (metre)

1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second
1 m/s (metre per second) equals 3.6 km/h (kilometre per hour)
1 km/h (kilometre per hour) equals 0.2778 m/s (metre per second)

1 cubic foot per second equals 0.028 317 m^3/s (cubic metre per second)
1 m^3/s (cubic metre per second) equals 35.315 cubic feet per second

1 pound equals 0.453 59 kg (kilogram)
1 kg (kilogram) equals 2.2046 pounds

1 short ton (2000 pounds) equals 0.907 18 t (tonne)
1 t (tonne) equals 2204.6 pounds

degrees Celsius = 5/9 (degrees Fahrenheit − 32)
degrees Fahrenheit = 9/5 (degrees Celsius) + 32

ÉQUIVALENCES DES UNITÉS DE MESURE

Voici une liste des unités de mesure impériales et leurs équivalences dans le Système international d'unités (SI).

1 pouce vaut 2.54 cm (centimètres)
1 pied vaut 0.3048 m (mètre)
1 mille terrestre équivaut à 1.6093 km (kilomètre)

1 cm (centimètre) équivaut à 0.393 70 pouce
1 m (mètre) équivaut à 3.2808 pieds
1 km (kilomètre) équivaut à 0.621 37 mille

1 acre vaut 43 560 pieds carrés
1 acre équivaut à 0.404 69 ha (hectare)
1 mille carré vaut 640 acres
1 mille carré équivaut à 2.5900 km^2 (kilomètres carrés)
1 mille carré équivaut à 259.0 ha (hectare)

1 ha (hectare) vaut 10 000 m^2 (mètres carrés)
1 ha (hectare) équivaut à 2.4710 acres
1 km^2 (kilomètre carré) équivaut à 0.386 10 mille carré

1 pied cube équivaut à 6.2288 gallons impériaux
1 gallon impérial vaut 4.546 09 L (litres)
1 gallon impérial équivaut à 1.2010 gallon américain
1 gallon américain équivaut à 0.133 68 pied cube
1 pied cube vaut 0.028 317 m^3 (mètre cube)
1 m^3 (mètre cube) vaut 35.315 pieds cubes
1 dam^3 (décamètre cube) vaut 1000 m^3 (mètres cubes)
1 dam^3 (décamètre cube) vaut 1 mm (millimètre) qui couvre 1 km^2 (kilomètre carré)

1 pied cube par seconde pendant un jour équivaut à 1.9835 acre-pied
1 pied cube par seconde pendant un jour équivaut à un volume d'un mille carré par 0.037 19 pouce
1 acre-pied équivaut à 1.2335 dam^3 (décamètres cubes)
1 m^3/s (mètre cube par seconde) pour un jour vaut 86.4 dam^3 (décamètre cube)
1 m^3/s (mètre cube par seconde) pour un jour couvre un kilomètre carré à une profondeur de 0.0864 m (mètre)

1 pied par seconde équivaut à 0.6818 mille par heure
1 mille par heure équivaut à 1.467 pied par seconde
1 m/s (mètre par seconde) vaut 3.6 km/h (kilomètre par heure)
1 km/h (kilomètre par heure) vaut 0.2778 m/s (mètre par seconde)

1 pied cube par seconde équivaut à 0.028 317 m^3/s (mètre cube par seconde)
1 m^3/s (mètre cube par seconde) équivaut à 35.315 pieds cubes par seconde

1 livre équivaut à 0.453 59 kg (kilogramme)
1 kg (kilogramme) équivaut à 2.2046 livres

1 tonne courte (2000 livres) équivaut à 0.907 18 t (tonne)
1 t (tonne) équivaut à 2204.6 livres

degrés Celsius = 5/9 (degrés Fahrenheit − 32)
degrés Fahrenheit = 9/5 (degrés Celsius) + 32

DEFINITION OF TERMS AND ABBREVIATIONS

"Control" is the condition downstream from a gauging station that determines the stage-discharge relationship. It may be a stretch of rapids, a weir or other artificial structure. In the absence of such features, the control may be a less obvious condition such as a convergence of the channel or even simply the resistance to flow through a downstream reach. A shifting control exists where the stage-discharge relationship tends to change because of impermanent bed or banks.

"Cubic metres per second" (m^3/s) is a unit expressing rate of discharge. One cubic metre per second is equal to one cubic metre of water flowing past a particular point in one second. This is the basic unit in general use, other units being computed from it by the use of factors as given in the previous paragraph under "Equivalents of Measure".

"Gauging station" is a location where systematic records of stage or stage and discharge are obtained.

"Miscellaneous (or related) data" is all data not published in the regular series of hydrometric and sediment data publications such as unpublished water levels and the various parameters that are measured in obtaining discharge measurements, e.g. water depth, velocity, width, air and water temperatures, ice thickness. This also includes discharge measurements and water level and sediment observations obtained at locations which are not regular gauging stations. Various types of "derived" data could also be considered "miscellaneous", such as water levels and discharges at selected time intervals (usually hourly).

"Stage-discharge relationship" is the relation between the water level and the discharge at a gauging station.

PUBLICATION OF SURFACE WATER AND SEDIMENT DATA

Surface Water Data have been published in a variety of formats in imperial units since 1908 in approximately 300 publications which are now mostly out-of-print. Commencing with the 1979 publications, data are presented in the International System of Units (SI). However, the format has remained the same wherein Canada is divided into eight regions. The provinces each represent a separate region except for New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province(s) or territories covered and the year in which data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically, with two years of data per page.

The first edition of a *Surface Water Data Reference Index* was published for data to 1966 by province or region. Subsequent editions were published annually or biennially in one publication for Canada. Commencing with the 1979 publication, data are

DÉFINITIONS DES TERMES ET ABRÉVIATIONS

«Élément régulateur» – élément qui conditionne l'écoulement en aval d'une station de jaugeage et qui détermine la relation hauteur-débit au niveau de la station. Ce peut être une série de rapides, un déversoir ou toute autre structure artificielle. En l'absence de ces structures, l'élément régulateur peut provenir d'une condition moins apparente comme le rétrécissement d'un chenal ou simplement la résistance à l'écoulement d'un tronçon situé en aval. Il y a élément régulateur changeant quand la relation hauteur-débit tend à être modifiée par un lit ou des rives instables.

«Mètres cubes par seconde» (m^3/s) – unité du taux d'écoulement. Un mètre cube par seconde équivaut à un mètre cube d'eau s'écoulant en un point donné en une seconde. C'est l'unité de base généralement employée, les autres unités dérivées à partir de celle-ci sont données sous la rubrique «Équivalences des unités de mesure».

«Station de jaugeage» – lieu où l'on effectue des relevés systématiques de la hauteur ou de la hauteur et du débit de l'eau.

«Les données diverses (ou connexes)» – représentent toutes les données qui ne sont pas publiées dans les séries régulières des publications sur les données hydrométriques et les sédiments, par exemple celles des niveaux des eaux et des autres paramètres qui sont mesurés en même temps que le débit, soit la profondeur de l'eau, sa vitesse, son étendue, la température de l'eau et de l'air, l'épaisseur de la glace. Les mesures de débit ainsi que les observations sur les niveaux des eaux et les sédiments, obtenues à des emplacements autres que les stations régulières de jaugeage, sont aussi incluses. D'autres types de données «dérivées» pourraient aussi être classées dans cette catégorie de données «diverses», à savoir les niveaux des eaux et les débits observés à des intervalles de temps précis (en général, toutes les heures).

«Relation hauteur-débit» – relation qui existe entre la hauteur et le débit au niveau d'une station de jaugeage.

PUBLICATION DES DONNÉES SUR LES EAUX DE SURFACE ET LES SÉDIMENTS

Depuis 1908, les *Données sur les eaux de surface* ont été publiées, en utilisant diverses formules et en ayant recours au système d'unités impériales, dans quelque 300 publications lesquelles sont pour la plupart épuisées. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Toutefois, la présentation est toujours la même, c'est-à-dire que le Canada est divisé en huit régions. Chaque province représente une région distincte sauf le Nouveau-Brunswick, la Terre-Neuve, la Nouvelle-Écosse et l'Île du Prince-Édouard qui constituent la région des provinces de l'Atlantique, comme c'est le cas aussi pour le Yukon et les Territoires du Nord-Ouest qui sont réunis en une seule région. Les publications sont identifiées par le nom des provinces ou territoires concernés et par l'année de la cueillette des données. Les données sont publiées annuellement, en fonction de l'année civile, et les stations sont classées par ordre alphabétique, chaque page de données couvrant deux années.

La première édition de l'*Index de référence des données sur les eaux de surface* comprenait les données disponibles jusqu'en 1966, de chaque province ou région. Les éditions subséquentes étaient publiées annuellement ou tous les deux ans en une seule publication

presented in the International System of Units (SI) and published every two years. Gauging stations are listed by province or territory, in upstream to downstream order. Coloured maps showing the locations of both active and discontinued stations were included in the first and second editions and were provided in a separate Hydrometric Map Supplement to the 1972 and the 1977 editions. The latest editions of the Reference Index and the Hydrometric Map Supplement supersede all previous editions.

The first edition of a publication series titled *Historical Streamflow Summary* was produced for data to 1970. Subsequent editions have been published every three years. This publication series contains a summary of historical monthly and annual mean discharges and annual extremes for the entire period of record for all stations where streamflow data have been collected during the history of the Water Survey of Canada. Data are published by province or region, as for the annual Surface Water Data publications. Commencing with the 1979 publications, data are presented in the International System of Units (SI). Editions subsequent to 1982 will be published every two years. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

The first edition of a publication series titled *Historical Water Levels Summary* was produced for data to 1976. This publication series contains a summary of historical monthly and annual mean water levels and annual extremes for the period of record for all stations on lakes or reservoirs where water level data have been collected during the history of the Water Survey of Canada. It also contains a summary of water level data for all stations on rivers where "water levels only" were collected or for certain stations on rivers where streamflow data are collected, but the historical water level information is considered to be of sufficient demand to warrant inclusion in the publication (daily water levels for stations where streamflow data are collected are not normally published in the annual Surface Water Data publications). Data are published by province or region, as for the annual Surface Water Data publications. Commencing with the 1979 publications, data are presented in the International System of Units (SI). Editions subsequent to 1983 will be published every two years. The latest edition supersedes all previous editions, since it contains any corrections or additions since the last publication.

During the years 1948 to 1960, some sediment data were collected for several Prairie rivers to meet the needs of particular projects. The first Paper containing sediment data incorporates a selection of these data and also data for part of the year ending September 30, 1961, at stations established for the continuing program. The second issue is a biennial publication covering only the continuing program for the 1962 and 1963 water years. All subsequent editions titled *Sediment Data Canadian Rivers* were published annually. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI).

Commencing with 1984, the *Sediment Data* are presented and published in a new format wherein Canada is divided into eight regions. The provinces each represent a separate region except for

pour tout le Canada. À partir de 1979, les données sont fournies dans le Système international d'unités (SI) et les éditions subséquentes vont paraître tous les deux ans. Les stations de jaugeage sont présentées par province ou territoire et placées dans l'ordre de leur position, d'amont en aval. Des cartes en couleurs, qui indiquent l'emplacement des stations hydrométriques en service, y compris celles qui ne le sont plus, ont paru dans les première et deuxième éditions ainsi que dans le *Supplément de cartes hydrométriques* de 1972 et de 1977. L'édition la plus récente de l'*Index de référence* et celle du *Supplément de cartes hydrométriques* annulent les éditions antérieures.

La première édition d'une série de publications intitulée *Sommaire chronologique de l'écoulement* renfermait les données disponibles jusqu'en 1970. Les éditions subséquentes étaient publiées tous les trois ans. Cette série de publications renferme un résumé des moyennes mensuelles et annuelles des débits ainsi que les débits extrêmes annuels pour toute la période d'enregistrement et pour toutes les stations où des données de débit sont recueillies par la Division des relevés hydrologiques du Canada. Les données sont publiées par province ou région, comme c'est le cas pour les publications annuelles des données sur les eaux de surface. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Les éditions subséquentes à 1982 vont paraître tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

La première édition d'une série de publications intitulée *Sommaire chronologique des niveaux d'eau* comprenait les données disponibles jusqu'en 1976. Cette série de publications contient un résumé des niveaux moyens mensuels et annuels ainsi que des niveaux extrêmes annuels pour la période d'enregistrement pour toutes les stations de lacs ou de réservoirs où des données sur les niveaux d'eau sont recueillies par la Division des relevés hydrologiques du Canada. Elle renferme également un résumé des niveaux d'eau pour toutes les stations de rivières effectuant «uniquement» des relevés de niveaux d'eau ou pour certaines stations de rivières où des données de débit sont recueillies de même que des données sur les niveaux d'eau qui peuvent répondre aux besoins des utilisateurs (en général, les niveaux d'eau quotidiens de stations effectuant des relevés de débit ne sont pas publiées dans les publications annuelles des données sur les eaux de surface). Les données sont publiées par province ou région, comme c'est le cas pour les publications annuelles des données sur les eaux de surface. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Les éditions subséquentes à 1983 vont paraître tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

De 1948 à 1960, on avait recueilli des données pour plusieurs cours d'eau des Prairies en prévision de la réalisation de certains projets. La première publication contenait un choix de ces données ainsi que d'autres, recueillies en 1961 avant le 30 septembre par des stations établies pour la réalisation du programme permanent. La deuxième publication portait sur les données recueillies dans le cadre du programme, au cours des années hydrologiques 1962 et 1963. Toutes les éditions subséquentes intitulées *Données sur les sédiments de rivières canadiennes* étaient publiées annuellement. À partir de 1978, les données sont fournies dans le Système international d'unités (SI).

En 1984, la présentation des données a été modifiée. Le Canada a été divisé en huit régions, une région pour chaque province, sauf le Nouveau-Brunswick, Terre-Neuve, la Nouvelle-Écosse et

New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island, which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province or territories covered and the year in which the data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically.

The first edition of a *Sediment Data Reference Index* was published for data to 1972. It contains a tabulation of locations where sediment data in Canada were collected by the Water Survey of Canada. The index has been subdivided alphabetically by province or territory, with sediment survey stations listed alphabetically. Commencing with the 1978 publication, data are presented in the International System of Units (SI) and will continue to be published every two years. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

The first edition of a new publication series titled *Historical Sediment Data Summary for Canadian Rivers* was produced for data to 1974. This publication contains a summary of historical monthly and annual mean suspended sediment load, and annual extremes of daily suspended sediment concentration and loads and total annual suspended load. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI). This publication has been discontinued, as much of the information is now included in the new annual *Sediment Data* publication.

EXPLANATION OF HISTORICAL STREAMFLOW SUMMARY PUBLICATION

A. General Description

Descriptive information about a gauging station is given herein below the table of monthly and annual mean discharges. This refers to such items as latitude and longitude, drainage area and whether the flow is natural or regulated (the year that regulation began is given, if known); International Gauging Stations are identified and the names of co-operating agencies who supply data are given; unusual conditions are explained under "Remarks".

This descriptive information (except the "Remarks" statement) is also given in the Surface Water Data Reference Index and the annual Surface Water Data publications. However, these two publications contain additional information not given herein such as the type of gauge, period of record and other pertinent remarks. Historical streamflow data as contained herein are published by province or region and also in alphabetical order as in the annual Surface Water Data publications. However, the Historical Streamflow Summary publications contain data for both active and discontinued streamflow stations and do not contain any water level data. These publications will be published every two years and will contain data for all streamflow stations for the entire period of record not just the data for the intervening two years.

l'Île-du-Prince-Édouard qui, ensemble, forment la région des provinces de l'Atlantique, et les Territoires du Yukon et du Nord-Ouest, qui forment une autre région. Les publications sont nommées selon la région couverte et l'année des données (année civile). Ces publications sont annuelles. Les stations y sont présentées par ordre alphabétique.

La première édition de l'*Index de référence des données sur les sédiments* renfermait les données disponibles jusqu'en 1972. Elle comprenait une mise en tableaux des emplacements où des données sur les sédiments sont recueillies au Canada par la Division des relevés hydrologiques. L'Index est subdivisé alphabétiquement par province ou territoire et les stations de relevés des sédiments sont classées en ordre alphabétique. À partir de 1978, les données sont fournies dans le Système international d'unités (SI) et sont publiées tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

La première édition d'une nouvelle série de publications intitulée *Sommaire chronologique des données sur les sédiments de rivières canadiennes* renfermait les données disponibles jusqu'en 1974. Cette série présente un résumé des moyennes mensuelles et annuelles de la charge de sédiments en suspension, des extrêmes annuels de la concentration quotidienne et de la charge quotidienne des sédiments en suspension, ainsi que de la charge totale annuelle des sédiments en suspension. À partir de 1978, les données sont fournies dans le Système international d'unités (SI). Cette série a été abandonnée, car une bonne partie de l'information est maintenant contenue dans la nouvelle publication annuelle intitulée *Données sur les sédiments*.

EXPLICATION DU *SOMMAIRE CHRONOLOGIQUE DE L'ÉCOULEMENT*

A. Description générale

Sous ce titre on trouve les renseignements descriptifs pour une station de relevés de l'écoulement, qui sont fournis après l'extrait des moyennes mensuelles et annuelles. Il s'agit de la latitude et de la longitude; de la superficie du bassin versant; du débit reconnu comme naturel ou régularisé (on indique l'année où la régularisation a débuté, si elle est connue); des stations internationales de jaugeage et des noms des organismes ayant fourni des données ainsi que des précisions sur les conditions spéciales qui prévalaient à la station (elles figurent dans les «Remarques»).

On trouvera également ces renseignements descriptifs (sauf les «Remarques») dans l'*Index de référence des données sur les eaux de surface* et dans les publications annuelles des *Données sur les eaux de surface*. Cependant, ces dernières traitent d'information additionnelles telles que du type de jauge, de la période d'enregistrement et d'autres remarques pertinentes. Les données historiques sur l'écoulement, qui sont contenues dans la présente publication, sont subdivisées en ordre alphabétique selon les provinces ou les territoires comme pour les publications annuelles des *Données sur les eaux de surface*. Par contre, le *Sommaire chronologique de l'écoulement* contient des données non seulement de stations en opération, mais aussi de stations qui ne le sont plus; aucune donnée sur le niveau des eaux n'est toutefois fournie. Cette publication paraîtra tous les deux ans et portera sur les données de toutes les stations de relevés de l'écoulement pour toute la période d'enregistrement plutôt que sur les données qui ne couvrent que les deux années.

B. Method of Tabulation of Data

For gauging stations where systematic streamflow data have been obtained, the following are given for the period of record to 1990 inclusive:

1. Summary of monthly and annual mean discharges;
2. Annual maximum instantaneous discharges;
3. Annual maximum and minimum daily discharges;
4. Identification of the extreme recorded for the period of record;
5. Annual total discharge in cubic decametres.

The following standard symbols are used opposite the daily discharge to which they apply. These symbols will not appear opposite the monthly and annual mean discharges, but will appear with the annual maximum instantaneous value and the annual maximum and minimum daily values, if applicable:

A – Manual Gauge – indicates that one or more manual gauge observations per day were obtained and used as the mean for the day for a gauging station equipped with a recording gauge during that particular year. A station may have several periods of recording or manual gauges throughout its history. For more details concerning the type of gauge operated during the period of record, the *Surface Water Data Reference Index* should be consulted. This symbol is used during open-water periods only.

B – Ice Conditions – indicates that for a gauging station where discharge data are obtained the presence of ice has affected the stage-discharge relationship.

E – Estimated – indicates any estimated data. It indicates that the value was determined by some indirect method such as interpolation, extrapolation, estimation from a graph of observed readings, comparison with other streams or by comparison with meteorological data.

R – Revised – indicates that a revision, correction or addition has been made to the historical discharge data base after January 1, 1989 .

1. *The summary of monthly and annual mean discharge* gives:

   (a) the monthly mean in cubic metres per second for each month for which there is a complete month of daily discharges. Records of daily discharges for partial months, if obtained, are published in annual publications or are available from the Regional Chief;

   (b) the annual mean discharge in cubic metres per second if there are daily discharges for the complete year. In some cases a mean discharge is computed for a standard period within the year, say March to October. This is then computed for all the years for which there are daily discharge records from March to October, if there are also records for other months, say January to October, the mean is given for March to October only;

B. Présentation sous forme de tableaux des données

Pour les stations où on a effectué un relevé systématique de l'écoulement, les données suivantes sont présentées pour la période d'enregistrement allant jusqu'en 1990 inclusivement:

1. Un extrait des moyennes mensuelles et annuelles;
2. Un tableau des valeurs annuelles maximales instantanées;
3. Un tableau des valeurs quotidiennes maximale et minimale annuelles;
4. Un tableau des valeurs extrêmes enregistrées pour toute la période d'observation;
5. Un résumé de l'écoulement annuel total en décamètres cubes.

Les symboles normalisés donnés ci-après sont inscrits à côté des débits quotidiens auxquels ils se rapportent. Les symbols ne sont fournis ni avec les débits moyens mensuels, ni avec les débits moyens annuels, mais ils paraissent avec les valeurs appropriées, c'est-à-dire la valeur instantanée maximale annuelle et les valeurs quotidiennes maximale et minimale annuelles:

A – Jauge manuelle – indique qu'on a effectué à une station de jaugeage dotée d'une jauge enregistreuse au moins une observation par jour à l'aide d'une jauge manuelle et qu'on s'en est servi comme moyenne quotidienne pour l'année en question. Toute station peut comporter diverses périodes où les relevés sont effectués soit à partir d'une jauge enregistreuse, soit à l'aide d'une jauge manuelle. Pour obtenir d'autres renseignements sur le genre de jauge qui a servi lors de la période d'observation, il faut consulter l'*Index de référence des données sur les eaux de surface*. Le symbole n'est employé qu'au cours de périodes d'eau libre.

B – Glaces – indique, pour les données portant sur le débit, que la présence de glaces à la station de jaugeage a faussé la relation hauteur-débit.

E – Estimatives – indique une donnée estimative, c'est-à-dire qu'on a déterminé la valeur de façon indirecte, par exemple par interpolation, extrapolation, à l'aide de graphique, ou par comparaison avec d'autres cours d'eau ou avec des données météorologiques.

R – Révisé – indique qu'il y a eu révision, correction ou addition à la base des données chronologiques des débits après le 1er janvier 1989 .

1. *L'extrait des moyennes mensuelles et annuelles* (The summary of monthly and annual mean discharges) donne:

   (a) la moyenne mensuelle, exprimée en mètres cubes par seconde, des valeurs quotidienne de l'écoulement pour le mois entier. Pour les stations où on n'a mesuré l'écoulement quotidien que pour une partie du mois, les données paraissent dans les publications annuelles ou peuvent être obtenues du chef régional;

   (b) la moyenne annuelle, en mètres cubes par seconde, pour les stations où on a obtenu des relevés quotidiens pour une année entière. Dans certains cas, la moyenne est calculée pour une période bien définie de l'année, par exemple pour mars à octobre. On donne donc la moyenne annuelle des relevés quotidiens effectués pour cette même période de l'année. S'il existe des données pour une autre partie de l'année, telle que pour janvier à octobre, la moyenne n'est toujours fournie que pour la période bien définie de mars à octobre;

(c) the mean of all the monthly means;

(d) the mean of all the annual or standard period means.

2. *The annual maximum instantaneous discharge* in cubic metres per second is given for each year if available. This figure is usually available if the station is equipped with a recording gauge. It may also be estimated from high water marks or from a graph of observed water level readings during the day.

3. *The annual maximum and minimum daily discharges* in cubic metres per second are given for each year where daily discharges have been obtained for the entire year (or standard period within the year, e.g. March to October), or where they are considered to be valid for the year even though some daily discharges are missing.

4. *The extreme recorded for the period of record* is identified by an asterisk within the table of annual maximum instantaneous, maximum daily and minimum daily values.

5. *The annual total discharge* in cubic decametres is given for each year where daily discharges have been obtained for the entire year. If a standard period such as March to October has been selected, the figure applies to only those months, similar to the mean discharge in cubic metres per second.

REVISIONS

A number of corrections or revisions have been made to previously published data. Many of these were required because of typographical or computational errors which were exposed when daily discharges were stored on magnetic tape and monthly means were re-calculated by computer. Other errors were discovered or different interpretations of basic data were made during the systematic review of historical streamflow data presently underway, for example, these revisions may have been justified because a more reliable stage-discharge relationship had been developed.

Revisions to daily discharges or daily water levels are not published at present. However, those stations where a systematic review has been conducted are identified in the Surface Water Data Reference Index publication. The Historical Streamflow Summary publications contain revisions to monthly and annual mean discharges, and annual extremes of discharge. The Historical Water Levels Summary publications contain revisions to monthly and annual mean water levels, and annual extremes of water level. Revisions, corrections or additions made to the discharges and water levels after January 1, 1987 are indicated by an "R" symbol in the summary publications. Detailed information on revisions to historical data is available from the appropriate Regional Chief.

(c) la moyenne de toutes les moyennes mensuelles;

(d) la moyenne de toutes les moyennes annuelles ou de toutes les moyennes pour une période bien définie.

2. *Le tableau des valeurs annuelles maximales instantanées* (The annual maximum instantaneous discharge) exprimées en mètres cubes par seconde, est fourni pour toute année où des données sont disponibles. La majorité des stations munies de jauges enregistreuses détiennent ces données. Elles peuvent également être évaluées à partir du niveau des hautes eaux ou d'un graphique illustrant le niveau quotidien.

3. *Le tableau des valeurs quotidiennes minimale et maximale annuelles* (The annual maximum and minimum daily discharges), exprimées en mètres cubes par seconde, donne les valeurs pour les stations où on a fait des relevés quotidiens pour une année entière ou pour une période bien définie de l'année, par exemple pour mars à octobre, ou lorsqu'on considère que les valeurs sont valables pour toute l'année même si quelques débits quotidiens ne sont pas disponibles.

4. *Le tableau des valeurs extrêmes enregistrées pour toute la période d'observation* (The extreme recorded for the period of record) est indiqué par un astérisque et est compris avec les valeurs annuelles maximales instantanées et les valeurs quotidiennes minimale et maximale annuelles.

5. *Le résumé de l'écoulement annuel total* (The annual total discharge), en décamètres cubes, est indiqué pour les stations où on a fait des relevés quotidiens pour une année entière. Si on a choisi une période bien définie de l'année, par exemple de mars à octobre, la valeur n'a trait qu'à ces mois, tout comme la moyenne mensuelle, en mètres cubes par seconde.

RÉVISIONS

On a corrigé ou révisé beaucoup de données déjà publiées. Il a été nécessaire d'effectuer plusieurs corrections, car on a relevé des erreurs typographiques ou de calculs lorsqu'on a enregistré les débits quotidiens sur rubans magnétiques et qu'on a recalculé à l'aide d'ordinateurs les moyennes mensuelles. On a aussi relevé d'autres erreurs ou fait des interprétations différentes de données de base au cours de la révision rétrospective systématique des données de débit qu'on est à faire en ce moment. Ainsi, on peut justifier des corrections, par le fait qu'on ait trouvé une relation hauteur-débit plus sûre.

Les corrections apportées aux débits quotidiens ou aux niveaux d'eau quotidiens ne sont pas publiées, du moins pour le moment. Cependant, les stations où on a effectué une révision systématique sont identifiées dans l'*Index de référence des données sur les eaux de surface*. Les publications intitulées *Sommaire chronologique de l'écoulement* contiennent des données sur les moyennes mensuelles et annuelles des débits et sur les extrêmes annuels des débits qu'on a révisées. Les publications intitulées *Sommaire chronologique des niveaux d'eau* renferment les révisions apportées aux niveaux moyens mensuels et annuels ainsi que les extrêmes annuels. Les révisions et corrections apportées aux débits et aux niveaux d'eau après le 1er janvier 1987 sont accompagnées du symbole «R» dans les publications sommaires. On peut obtenir plus de détails sur les révisions en s'adressant au chef régional concerné.

ACCURACY OF HYDROMETRIC DATA

The overall accuracy or the degree of reliability of hydrometric data referred to herein, depends upon

(1) The type of gauge, stability of gauge, accuracy of observation of stage and measurement of reference datum,

(2) The stability of the stage-discharge relationship; or if the control is unstable, the frequency and accuracy of discharge measurements, and

(3) The computation procedures and interpretation of records.

Because of all these variable factors, the number of significant figures used herein has been standardized for uniformity of presentation and does not reflect the degree of accuracy of the data. The Water Resources Branch standard for storing water level data is to three decimal points (0.001 m), although some contributing agencies provide data to two decimal points (0.01 m).

A measure of the reliability of the records can be made by an examination of the distribution of the symbols A, E and B (for discharge data).

In general, data collected during open-water periods are more reliable than those collected during periods of ice conditions or those obtained by estimation. Further, water level data collected utilizing a water-stage recorder are more reliable and accurate than those using a manual gauge only, especially for small or flashy streams.

EXACTITUDE DES DONNÉES HYDROMÉTRIQUES

La précision totale ou le degré d'exactitude des données hydrométriques dont on parle ici sont basés sur

(1) Le type de jauge, la stabilité de la gauge, la précision des observations sur les niveaux et de la mesure de la donnée de réference,

(2) La stabilité de la relation hauteur-débit ou, si l'élément régulateur est changeant, sur la fréquence et la précision des mesures de débits, et

(3) L'évaluation des procédés et l'interprétation des chiffres.

À cause de toutes les variables déjà mentionnées, on a normalisé pour des fins d'uniformité de présentation le nombre de chiffres significatifs, mais ceci ne réflète pas le degré d'exactitude des données. Dans la Direction des ressources en eau, les normes de cueillette des données sur le niveau des eaux sont de l'ordre de trois décimales (0.001 m), alors que certains organismes dans ce domaine n'exigent que deux décimales (0.01 m).

L'exactitude des données peut être appréciée par l'examen de la répartition des symboles A, E et B (pour les données de débits).

En général, les données recueillies au cours des périodes d'eau libre sont plus sûres que celles qui sont obtenues au cours des périodes de glaces ou par estimation. De plus, les données sur le niveau des eaux qui sont mesurées à l'aide d'un limnigraphe sont plus certaines et plus exactes que celles qui sont mesurées à l'aide d'une jauge manuelle seulement, surtout dans le cas de petits cours d'eau ou de cours d'eau à crues très rapides.

ANGLING RIVER NEAR BIRD - STATION NO. 05UH001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	0.839	0.655	0.508	0.503	17.3	32.9	24.3	13.2	10.8	15.8	7.36	3.67	10.7	1979
1980	1.25	0.828	0.842	17.7	29.2	24.0	32.4	27.7	30.3	18.5	6.28	3.21	16.1	1980
1981	1.88	1.16	0.733	0.668	46.3	30.0	12.6	16.3	5.98	19.4	6.98	2.80	12.2	1981
1982	1.32	0.935	0.781	0.804	45.4	15.5	7.07	8.85	10.6	14.4	5.90	3.18	9.65	1982
1983	2.06	1.59	1.29	1.11	26.6	123	7.42	14.0	37.9	21.9	10.0	5.06	20.9	1983
1984	3.14	1.99	1.26	---	---	26.5	6.07	2.19	1.43	2.75	2.16	1.36	---	1984
1985	0.890	0.651	0.527	---	---	44.8	19.4	2.76	1.49	4.07	2.05	1.13 R	---	1985
1986	0.636	0.461	0.368	0.311	62.6	20.9	18.7	30.4	13.5	9.41	5.71R	3.22 R	14.0 R	1986
1987	1.80	1.12	0.810	---	---	---	---	---	10.8	7.88	4.17	1.57	---	1987
1988	0.829	0.517	0.357	0.288	79.7	25.1	5.53	4.06	4.16	4.40R	1.45R	0.533R	10.7 R	1988
1989	0.389	0.371	0.370	0.398	---	17.0	3.42	0.755	4.17	4.95	1.20	0.334	---	1989
1990	0.257	0.232	0.219	0.916	23.3	18.0	3.77	4.92	10.7	7.52	2.88	1.74	6.24	1990
MEAN	1.27	0.876	0.672	2.52	41.3	34.3	12.8	11.4	11.8	10.9 R	4.68R	2.32 R	12.6 R	MEAN

LOCATION - LAT 56 40 39 N
LONG 093 38 20 W
DRAINAGE AREA, 1 560 km²
NATURAL FLOW

R - REVISED SINCE JAN 01 1989

ANGLING RIVER NEAR BIRD - STATION NO. 05UH001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	---	48.5 ON JUN 04	0.400B ON APR 13	337 000	1979
1980	89.4 AT 22:34 CST ON APR 25	68.5 ON APR 25	0.800B ON FEB 13	508 000	1980
1981	---	116 B ON MAY 21	0.655B ON MAY 12	384 000	1981
1982	---	89.5B ON MAY 08	0.712B ON APR 24	304 000	1982
1983	313 AT 18:00 CST ON JUN 02 *	307 ON JUN 02 *	1.02 B ON MAY 17	659 000	1983
1984	---	---	---	---	1984
1985	---	---	---	---	1985
1986	---	152 A ON MAY 16	0.298B ON MAY 02	441 000	1986
1987	---	---	---	---	1987
1988	---	173 E ON MAY 05	0.274B ON APR 17	337 000	1988
1989	---	---	0.278B ON DEC 31	---	1989
1990	---	41.6E ON MAY 24	0.200B ON MAR 26 *	197 000	1990
				396 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ANTLER RIVER NEAR MELITA - STATION NO. 05NF002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1935	---	---	---	---	---	---	---	---	---	0.001	---	---	---	1935
1936	---	---	---	---	0.323	0.038	---	---	---	---	---	---	---	1936
1938	---	---	---	0.029	0.002	---	---	---	---	---	---	---	---	1938
1943	---	---	0	11.3	0.917	1.49	0.464	0.061	0.022	0.006	---	---	---	1943
1944	---	---	0	0.259	0.137	0.629	1.37	0.259	0.104	0.019	---	---	---	1944
1945	---	---	0.325	0.534	0.132	0.181	0.374	0.058	0.002	0	---	---	---	1945
1946	---	---	2.45	6.46	0.323	0.106	0.047	0.001	0	0	---	---	---	1946
1947	---	---	0	7.20	0.619	3.36	3.63	0.275	0.033	0.005	---	---	---	1947
1948	---	---	0	11.6	8.23	0.698	0.522	0.488	0.054	0.013	---	---	---	1948
1949	---	---	0	9.93	0.815	3.58	0.266	0.135	0.011	0.017	0.023	---	---	1949
1950	---	---	0.631	7.18	3.50	1.54	1.53	3.37	0.539	0.731	---	---	---	1950
1951	---	---	0	12.4	10.0	1.17	0.272	0.334	0.110	0.047	---	---	---	1951
1952	---	---	0.022	3.15	0.124	0.210	0.058	0	0	0.003	---	---	---	1952
1953	---	---	0.015	2.84	0.389	2.21	0.876	0.056	0	0.099	0.286	---	---	1953
1954	---	---	0	0.400	0.275	4.54	3.91	0.286	0.327	0.552	0.650	---	---	1954
1955	---	---	0	15.6	8.03	2.69	1.47	0.278	0.102	0.131	---	---	---	1955
1956	---	---	0.002	11.5	2.40	0.467	0.218	0.020	0	0.005	---	---	---	1956
1957	---	---	0.609	1.63	0.351	0.225	0.004	0	0	0	---	---	---	1957
1958	---	---	0.695	4.68	0.232	0	0	0	0	0	---	---	---	1958
1959	---	---	0.370	0.177	0.019	0.001	0	0	0	0.002	---	---	---	1959
1960	---	---	0.016	5.99	0.227	0.070	0.001	0	0	0	---	---	---	1960
1961	---	---	0.005	0.002	0.003	0	0	0	0	0	---	---	---	1961
1962	---	---	0	0	0	0	0	0	0	0	---	---	---	1962
1963	---	---	0	0	0	0.768	0.048	0.147	0.621	0.055	---	---	---	1963
1964	---	---	0	4.10	2.18	0.369	0.168	0.027	0.004	0.003	---	---	---	1964
1965	---	---	0	1.75	0.676	0.403	0.066	0.011	0.007	0.030	---	---	---	1965
1966	---	---	1.29	3.90	1.52	0.345	0.121	0.006	0	0	---	---	---	1966
1967	---	---	0.010	0.364	0.250	0.048	0.003	0	0	0	---	---	---	1967
1968	---	---	0.203	0.183	0.011	0	0.012	0.015	0.006	0	---	---	---	1968
1969	---	---	0	29.7	2.18	0.592	2.59	0.551	0.035	0.091	---	---	---	1969
1970	---	---	0.045	5.06	9.86	1.04	0.292	0.181	0.014	0.126	---	---	---	1970
1971	---	---	0.010	1.63	0.445	1.17	0.391	0.006	0.001	0.006	---	---	---	1971
1972	---	---	6.88	4.11	0.743	0.935	0.324	0.200	0.048	0.011	---	---	---	1972
1973	---	---	0.467	0.246	0.198	0.474	0.061	0.003	0	0.001	---	---	---	1973
1974	---	---	0	20.2	5.68	1.94	0.448	0.086	0.002	0.004	---	---	---	1974
1975	---	---	0.006	9.14	14.4	4.23	0.973	0.525	1.55	2.75	---	---	---	1975
1976	---	---	0.293	63.3	5.65	1.76	0.612	0.123	0.010	0.012	---	---	---	1976
1977	---	---	0.014	0.089	0.132	0.010	0	0	0	0	0	0	---	1977
1978	0	0	0.002	1.06	0.101	0	0	0	0	0	0	0	0.096	1978
1979	0	0	0	7.39	2.64	0.414	0.086	0.035	0.007	0	0	0	0.877	1979
1980	0	0	0	0.084	0.069	0	0	0	0	0	0	0	0.013	1980
1981	0	0.228	0.352	0.023	0.001	0	0	0	0	0	0	0	0.049	1981
1982	0	0	0	5.23	0.734	0.204	0.117	0.001	0	0	0	0	0.519	1982
1983	0	0	0.051	6.27	1.14	0.195	0.079	0	0	0	0	0	0.639	1983
1984	0	0	0.001	0.205	0.165	0.018	0	0	0	0	0	0	0.032	1984
1985	0	0	2.92	1.77	0.272	0.033	0	2.41	1.97	1.44	0.700	0.191	0.982	1985
1986	0.094	0.069	3.65	1.46	2.79	0.318	1.03	0.658	0.023	0.053	0.077	0.058	0.868	1986
1987	0.023	0.049	2.87	6.31	0.394	0.269	0.030	0.023	0	0.001	0.002	0.001	0.829	1987
1988	0	0	0	0	0.003	0	0	0	0	0	0	0	0	1988
1989	0	0	0	2.19	0.117	0.007	0	0	0	0	0	0	0.191	1989
1990	0	0	0	0	0	0	0	0	0	0	0	0	0	1990
MEAN	0.009	0.027	0.504	5.87	1.79	0.787	0.468	0.221	0.117	0.127	0.102	0.018	0.392	MEAN

LOCATION - LAT 49 03 34 N DRAINAGE AREA, 3 210 km²
LONG 101 02 56 W NATURAL FLOW

REMARKS - MONTHLY MEAN NATURAL FLOWS FOR THE PERIOD 1912-77 HAVE BEEN COMPUTED BY THE PRAIRIE PROVINCES WATER BOARD

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1935	---	---	0 ON SEP 26 *	---	1935
1936	---	---	---	---	1936
1938	---	---	0 ON MAY 15	---	1938
1943	---	47.3 ON APR 09	0B CO MAR 01	---	1943
1944	---	4.56 ON JUL 02	0B ON MAR 01	---	1944
1945	---	3.23 B ON MAR 29	0B ON MAR 01	---	1945
1946	---	41.3 B ON MAR 31	0B ON MAR 01	---	1946
1947	---	29.7 ON JUN 29	0B ON MAR 01	---	1947
1948	---	73.9 ON APR 26	0B ON MAR 01	---	1948
1949	---	59.5 ON APR 14	0B ON MAR 01	---	1949
1950	---	15.7 B ON APR 21	0B ON MAR 01	---	1950
1951	---	34.5 ON APR 14	0B ON MAR 01	---	1951
1952	---	8.58 B ON APR 05	0B ON MAR 01	---	1952
1953	---	9.97 B ON APR 07	0B ON MAR 01	---	1953
1954	---	12.0 ON JUN 21	0B ON MAR 01	---	1954
1955	---	58.9 ON APR 09	0B ON MAR 01	---	1955
1956	---	30.6 ON APR 15	0B ON MAR 01	---	1956
1957	---	6.71 B ON MAR 30	0B ON MAR 01	---	1957
1958	---	17.7 ON APR 04	0B ON MAR 01	---	1958
1959	---	2.07 ON MAR 30	0B ON MAR 01	---	1959
1960	---	21.5 ON APR 07	0B ON MAR 01	---	1960
1961	---	0.028 ON MAR 20	0 ON MAR 01	---	1961
1962	---	0 ON MAR 01	0 ON MAR 01	---	1962
1963	---	2.65 ON JUN 09	0 ON MAR 01	---	1963
1964	---	9.91 B ON APR 08	0B ON MAR 01	---	1964
1965	---	6.68 B ON APR 17	0B ON MAR 01	---	1965
1966	---	8.64 B ON APR 06	0B ON MAR 01	---	1966
1967	---	0.706 ON APR 21	0B ON MAR 01	---	1967
1968	---	0.878B ON APR 03	0B ON MAR 01	---	1968
1969	---	106 ON APR 17	0B ON MAR 01	---	1969
1970	---	27.2 ON MAY 05	0B ON MAR 01	---	1970
1971	---	4.53 B ON APR 13	0 ON AUG 22	---	1971
1972	---	22.7 B ON MAR 26	0B ON MAR 01	---	1972
1973	---	1.27 B ON MAR 25	0B ON MAR 01	---	1973
1974	---	73.6 B ON APR 20	0B ON MAR 01	---	1974
1975	62.3 AT 18:55 CST ON MAY 03	61.7 ON MAY 03	---	---	1975
1976	119 AT 08:27 CST ON APR 14 *	118 ON APR 14 *	0 ON AUG 30	---	1976
1977	---	0.215 ON MAY 17	0B ON MAR 01	---	1977
1978	---	3.71 B ON APR 04	0B ON JAN 01	3 020	1978
1979	42.4 AT 01:28 CST ON APR 25	39.8 ON APR 25	0B ON JAN 01	27 600	1979
1980	0.553 AT 17:56 CST ON APR 18	0.396 ON APR 18	0B ON JAN 01	403	1980
1981	---	2.96 B ON FEB 27	0B ON JAN 01	1 560	1981
1982	29.1 AT 05:32 CST ON APR 18	26.9 ON APR 18	0B ON JAN 01	16 400	1982
1983	13.8 AT 07:27 CST ON APR 27	13.5 ON APR 27	0B ON JAN 01	20 100	1983
1984	0.688B AT 07:06 CST ON APR 03	0.437B ON APR 03	0B ON JAN 01	1 030	1984
1985	11.2 B AT 08:39 CST ON MAR 23	10.6 B ON MAR 23	0B ON JAN 01	31 000	1985
1986	7.02 AT 03:11 CST ON MAY 14	6.91 ON MAY 14	0 ON SEP 12	27 400	1986
1987	18.7 AT 23:41 CST ON APR 09	18.0 ON APR 10	0 ON JUL 08	26 100	1987
1988	0.021 AT 06:43 CST ON MAY 04	0.015 ON MAY 03	0B ON JAN 01	9.33	1988
1989	15.8 B AT 05:04 CST ON APR 06	14.5 B ON APR 06	0B ON JAN 01	6 020	1989
1990	---	0 B ON JAN 01	0B ON JAN 01	0	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		12 400	MEAN

ARROW RIVER NEAR ARROW RIVER - STATION NO. 05MG001

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.389	0.132	0.052	0.014	0	0	0	0.059	---	---	0.081	1959
1960	---	---	0	2.02	0.190	0.141	0	0	0	0	---	---	0.288	1960
1961	---	---	0.044	0.120	0.067	0.010	0	0	0	0	---	---	0.030	1961
1962	---	---	0	0.596	0.056	0.032	0	0.085	0.006	0.052	---	---	0.102	1962
1963	---	---	0.866	0.635	0.099	0.173	0.016	0.013	0.015	0.012	---	---	0.228	1963
1964	---	---	0	1.93	0.274	0.030	0.038	0.005	0.004	0.029	---	---	0.284	1964
1965	---	---	0	1.52	0.133	0.066	0.005	0	0.137	0.043	---	---	0.234	1965
1966	---	---	0.200	0.614	0.300	0.045	0.005	0.031	0.001	0.013	---	---	0.150	1966
1967	---	---	0.012	3.21	0.847	0.030	0	0	0	0.005	---	---	0.506	1967
1968	---	---	0.814	0.531	0.057	0.010	0.037	0.034	0.027	0.067	---	---	0.197	1968
1969	---	---	0	5.41	0.249	0.046	0.132	0.002	0.013	0.052	---	---	0.725	1969
1970	---	---	0	1.60	0.868	0.096	0.007	0	0.071	0.078	---	---	0.336	1970
1971	---	---	0.007	0.688	0.098	0.680	0.442	0.010	0.010	0.124	---	---	0.255	1971
1972	---	---	0.603	2.37	0.455	0.033	0.001	0.010	0	0.013	---	---	0.432	1972
1973	---	---	0.133	0.062	0.032	0.028	0.022	0.006	0.025	0.054	---	---	0.048	1973
1974	---	---	0	4.09	0.836	0.065	0.006	0	0.002	0.004	---	---	0.615	1974
1975	---	---	0	1.65	0.883	0.332	0.033	0.067	0.198	0.146	---	---	0.410	1975
1976	---	---	0	5.71	0.478	0.119	0.025	0	0.002	0.040	---	---	0.782	1976
1977	---	---	0.067	0.228	0.134	0.134	0.040	0	0.009	0.028	---	---	0.080	1977
1978	---	---	0.144	0.656	0.152	0.064	0.147	0.004	0.022	0.040	---	---	0.152	1978
1979	---	---	0.003	3.16	1.60	0.155	0.006	0	0	0	---	---	0.610	1979
1980	---	---	0.010	0.418	0.013	0	0.026	0.068	0.021	0.058	---	---	0.076	1980
1981	---	0.221	0.047	0.065	0.066	0.072	0.011	0.011	0.045	0.069	---	---	0.048	1981
1982	---	---	0.447	1.82	0.111	0.077	0.048	0	0.001	0.067	---	---	0.318	1982
1983	---	---	0	2.45	0.761	0.050	0.038	0	0	0	---	---	0.408	1983
1984	---	---	0.149	0.090	0.047	0.026	0.001	0	0	0.006	---	---	0.040	1984
1985	---	---	0.628	1.15	0.054	0.013	0.003	0.050	0.096	0.070	---	---	0.257	1985
1986	---	---	0.872	3.41	1.04	0.098	0.047	0	0.001	0.059	---	---	0.685	1986
1987	---	---	0.190	2.68	0.050	0.014	0.060	0.001	0.003	0.021	---	---	0.371	1987
1988	---	---	0.046	0.156	0.174	0.002	0	0	0	0	---	---	0.047	1988
1989	---	---	0	0.182	0.008	0.023	0.020	0	0	0	---	---	0.029	1989
1990	---	---	0.432	1.51	0.154	0.093	0.014	0	0.005	0.015	---	---	0.275	1990
MEAN	---	0.221	0.191	1.59	0.324	0.087	0.038	0.012	0.022	0.038	---	---	0.284	MEAN

LOCATION - LAT 50 05 10 N DRAINAGE AREA, 670 km²
LONG 100 57 30 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM DAILY DISCHARGE OF 0.712 M3/S OCCURRED IN FEB

ARROW RIVER NEAR ARROW RIVER - STATION NO. 05MG001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.46 B ON MAR 21	0B ON MAR 01 *	1 720	1959
1960	---	6.17 ON APR 14	0B ON MAR 01	6 100	1960
1961	---	0.425B ON MAR 29	0B ON MAR 01	632	1961
1962	---	2.66 ON APR 18	0B ON MAR 01	2 160	1962
1963	---	2.15 B ON MAR 27	0B ON MAR 01	4 820	1963
1964	---	6.20 ON APR 15	0B ON MAR 01	6 010	1964
1965	---	8.41 B ON APR 13	0B ON MAR 01	4 940	1965
1966	---	1.81 B ON APR 01	0B ON MAR 01	3 180	1966
1967	---	7.22 B ON APR 12	0B ON MAR 01	10 700	1967
1968	---	5.52 B ON MAR 27	0B ON MAR 01	4 170	1968
1969	---	30.0 ON APR 11 *	0B ON MAR 01	15 300	1969
1970	---	4.93 B ON APR 10	0B ON MAR 01	7 120	1970
1971	---	2.70 B ON APR 07	0 ON MAR 01	5 190	1971
1972	---	4.25 ON APR 12	0B ON MAR 01	9 140	1972
1973	---	0.436B ON MAR 18	0B ON MAR 01	1 010	1973
1974	16.7 AT 15:00 CST ON APR 18 *	14.3 ON APR 18	0B ON MAR 01	13 000	1974
1975	6.06 AT 00:05 CST ON APR 29	5.49 ON APR 29	0B ON MAR 01	8 680	1975
1976	---	17.5 B ON APR 10	0B ON MAR 01	16 600	1976
1977	1.35 B AT 16:11 CST ON APR 03	0.883 ON MAY 19	0B ON MAR 01	1 690	1977
1978	2.50 B AT 13:46 CST ON APR 01	1.76 B ON MAR 31	0B ON MAR 01	3 230	1978
1979	---	19.3 B ON APR 21	0 ON JUL 09	12 900	1979
1980	---	1.57 B ON APR 03	0B ON MAR 01	1 610	1980
1981	1.16 B AT 15:52 CST ON FEB 25	0.248 ON SEP 01	0 ON JUL 11	1 010	1981
1982	---	6.13 B ON APR 11	0B ON MAR 01	6 730	1982
1983	---	6.13 B ON APR 10	0B ON MAR 01	8 630	1983
1984	0.831B AT 12:57 CST ON MAR 22	0.579B ON MAR 24	0B ON MAR 01	842	1984
1985	4.03 B AT 00:20 CST ON APR 05	2.70 B ON APR 05	0B ON MAR 01	5 430	1985
1986	8.91 B AT 19:01 CST ON APR 01	7.14 ON APR 02	0B ON MAR 01	14 500	1986
1987	---	9.86 ON APR 06	0B ON MAR 01	7 840	1987
1988	1.14 AT 15:42 CST ON MAY 02	0.896 ON MAY 03	0 ON JUN 07	999	1988
1989	1.02 AT 11:02 CST ON APR 09	0.880E ON APR 04	0B ON MAR 01	604	1989
1990	5.44 AT 04:00 CST ON MAR 31	4.37 ON MAR 31	0B ON MAR 01	5 810	1990
				6 020	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ARROW RIVER NEAR KELLOE - STATION NO. 05MG009

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	0.001	0	0	0	0	0	0	0	---	---	0	1966
1967	---	---	0	0.010	0	0	0	0	0	0	---	---	0.001	1967
1968	---	---	0.004	0	0	0	0	0	0	0	---	---	0.001	1968
1969	---	---	0	0.006	0	0	0	0	0	0	---	---	0.001	1969
1970	---	---	0	0.006	0.001	0	0	0	0	0	---	---	0.001	1970
1971	---	---	0	0.009	0	0	0	0	0	0	---	---	0.001	1971
1972	---	---	0	0.023	0.012	0	0	0	0	0	---	---	0.004	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	0.024	0.002	0	0	0	0	0	---	---	0.003	1974
1975	---	---	0	0.005	0	0	0	0	0	0	---	---	0.001	1975
MEAN	---	---	0.001	0.008	0.002	0	0	0	0	0	---	---	0.001	MEAN

LOCATION - LAT 50 25 05 N DRAINAGE AREA, 4.25 km²
LONG 100 49 02 W NATURAL FLOW

REMARKS - DAILY DISCHARGES PRIOR TO 1973 HAVE NOT BEEN PUBLISHED

ARROW RIVER NEAR KELLOE - STATION NO. 05MG009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	0.010B ON MAR 30	0B ON MAR 01 *	4.06	1966
1967	---	0.085B ON APR 14	0B ON MAR 01	26.9	1967
1968	---	0.051B ON MAR 28	0B ON MAR 01	12.7	1968
1969	---	0.040B ON APR 09	0B ON MAR 01	14.5	1969
1970	---	0.022B ON APR 13	0B ON MAR 01	16.0	1970
1971	---	0.082B ON APR 07	0B ON MAR 01	22.9	1971
1972	---	0.076 ON APR 24	0B ON MAR 01	32.7	1972
1973	---	0 B ON MAR 01	0B ON MAR 01	0	1973
1974	---	0.354B ON APR 17 *	0B ON MAR 01	65.4	1974
1975	---	0.048B ON APR 14	0B ON MAR 01	14.6	1975
				27.0	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER AT BRANDON - STATION NO. 05MH001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1906	---	---	---	14.2	14.7	21.4	17.7	5.46	22.8	20.8	14.2	---	---	1906
1907	---	---	---	84.9	142	139	123	80.0	90.8	76.0	51.0	---	---	1907
1908	---	---	---	85.1	109	58.5	53.3	38.0	27.9	32.1	28.4	---	---	1908
1909	---	---	---	85.0	107	48.6	49.5	75.6	34.3	28.9	22.7	---	---	1909
1910	---	---	---	56.7	34.8	62.7	66.1	26.7	19.4	15.3	14.2	---	---	1910
1911	---	---	---	42.5	58.5	84.7	53.3	30.7	27.6	38.6	19.8	---	---	1911
1912	---	---	---	99.1	182	130	60.5	48.2	87.7	101	52.2	20.9	---	1912
1913	12.0	10.8	11.4	178	288	99.1	116	102	43.7	29.3	19.8	11.9	77.4	1913
1914	6.45	5.51	11.1	61.7	152	68.1	21.9	7.94	5.34	6.64	7.09	4.91	30.0	1914
1915	1.48	2.57	3.42	27.2	16.4	13.0	16.0	10.1	6.97	6.46	5.74	4.39	9.49	1915
1916	2.48	2.59	2.58	119	72.1	94.5	90.3	24.6	13.8	17.0	18.4	10.3	39.0	1916
1917	4.88	2.96	4.41	53.3	172	72.2	62.4	20.1	11.1	7.47	7.93	4.53	35.6	1917
1918	2.27	2.59	6.47	51.7	28.6	29.2	22.8	10.6	9.68	8.21	7.00	4.06	15.3	1918
1919	3.40	2.87	2.51	83.1	34.6	17.3	32.2	9.09	8.17	9.72	6.23	4.06	17.8	1919
1920	4.25	4.28	6.06	57.3	195	70.0	22.1	12.3	6.98	6.90	11.5	6.60	33.7	1920
1921	4.24	3.36	4.38	104	124	89.5	104	41.9	26.5	50.8	56.4	24.6	53.1	1921
1922	12.2	7.28	10.4	130	432	228	66.8	31.9	21.9	16.1	17.5	10.9	82.5	1922
1923	7.27	6.19	6.03	126	416	122	128	75.4	35.5	27.2	17.3	16.1	82.7	1923
1924	8.93	8.35	8.95	62.6	95.2	50.3	38.6	22.5	15.7	19.7	15.5	9.64	29.7	1924
1925	5.99	5.05	22.0	231	137	86.3	57.6	18.5	11.7	13.0	9.59	6.46	50.4	1925
1926	3.62	2.88	6.08	55.0	41.0	27.0	15.1	7.73	13.9	19.5	14.2	9.81	18.0	1926
1927	5.93	4.64	7.06	140	369	158	86.9	49.9	37.3	40.6	21.8	11.3	78.1	1927
1928	8.89	7.08	19.8	148	101	82.3	87.9	28.9	14.8	12.8	12.9	4.84	44.1	1928
1929	3.78	4.13	6.41	37.3	45.6	28.1	13.6	6.22	4.78	5.28	5.47	4.58	13.8	1929
1930	2.81	2.38	4.19	57.9	37.4	21.4	15.2	5.37	2.84	4.40	3.45	2.42	13.3	1930
1931	2.57	2.29	5.03	19.3	10.8	7.38	5.88	4.18	4.03	4.39	3.68	1.98	5.95	1931
1932	2.53	1.70	2.32	37.4	25.1	10.6	10.7	5.32	4.95	5.48	5.38	3.74	9.50	1932
1933	4.97	2.72	3.17	76.7	40.2	48.8	24.9	6.02	4.81	5.68	5.66	4.25	18.8	1933
1934	2.97	3.40	17.0	76.5	48.8	18.4	8.96	2.87	3.10	4.12	4.23	2.63	16.1	1934
1935	2.17	2.45	4.00	35.9	23.7	27.2	95.5	21.3	11.7	9.97	6.45	4.48	20.5	1935
1936	3.96	2.76	2.43	150	122	40.7	19.9	7.32	4.27	4.63	3.86	2.70	30.3	1936
1937	1.93	1.73	2.39	20.8	20.8	17.3	5.28	2.21	1.44	3.60	3.03	0.861	6.77	1937
1938	1.42	1.79	20.9	56.3	27.5	13.0	8.08	5.71	3.20	3.46	3.07	2.31	12.2	1938
1939	2.09	1.75	8.73	31.4	18.4	9.91	10.6	5.47	3.09	3.47	3.88	2.83	8.48	1939
1940	0.829	0.653	1.03	7.87	11.0	6.29	3.96	3.09	2.13	2.57	3.03	1.96	3.70	1940
1941	2.06	2.08	2.13	41.6	22.1	11.0	3.85	2.13	3.86	3.62	3.51	2.30	8.33	1941
1942	1.11	0.605	11.5	112	36.8	33.3	17.3	10.5	21.5	13.4	6.66	2.43	22.9	1942
1943	3.06	1.82	3.59	141	91.7	81.5	37.5	14.7	9.68	7.46	6.84	4.06	33.6	1943
1944	1.29	1.56	1.89	16.9	17.2	29.2	42.5	11.0	9.04	8.41	6.65	3.00	12.4	1944
1945	1.12	1.99	10.2	51.1	42.4	25.8	24.2	10.2	6.00	7.74	6.70	2.70	15.9	1945
1946	1.79	1.96	19.0	119	36.1	14.7	35.5	9.29	4.81	13.3	13.6	4.40	22.8	1946
1947	2.18	2.38	2.82	106	176	82.7	192	29.9	17.4	17.4	11.3	8.49	54.5	1947
1948	6.99	5.77	5.34	76.9	349	105	50.5	36.7	13.1	9.74	9.12	6.05	56.5	1948
1949	3.97	1.07	1.59	76.8	23.9	54.7	16.4	15.5	7.07	6.96	9.40	4.60	18.6	1949
1950	2.97	2.88	5.51	64.0	101	63.4	74.4	44.2	15.9	15.5	13.7	6.83	34.3	1950
1951	5.33	4.36	4.84	123	132	43.3	25.7	12.4	15.7	23.0	17.9	7.44	34.6	1951
1952	3.70	3.29	4.47	82.8	53.6	24.4	14.9	6.84	17.0	8.63	5.93	3.89	19.0	1952
1953	2.79	3.21	3.77	105	81.8	112	115	79.7	37.9	24.3	25.6	12.7	50.4	1953
1954	8.72	7.22	9.65	66.6	135	165	262	87.9	48.7	72.8	46.5	31.1	79.0	1954
1955	16.6	16.8	13.7	236	371	241	119	61.6	35.1	30.7	25.0	18.1	99.0	1955
1956	13.2	12.5	13.6	120	369	262	142	57.3	35.4	21.7	21.2	13.6	90.3	1956
1957	10.9	7.29	21.1	115	209	58.6	25.4	13.0	9.77	10.6	12.2	6.24	41.0	1957
1958	4.20	4.67	11.0	59.4	24.6	10.9	8.15	3.55	3.42	5.81	5.76	4.66	12.0	1958
1959	1.54	1.45	7.39	40.5	23.9	13.9	14.6	4.96	4.38	7.51	8.33	7.30	11.3	1959
1960	5.43	4.57	3.83	132	115	60.8	24.2	6.72	3.42	3.11	3.47	2.42	30.3	1960
1961	2.66	1.85	3.57	16.3	10.7	4.09	1.87	0.929	1.22	1.91	2.00	1.18	4.04	1961
1962	1.34	1.26	2.29	33.7	40.3	10.8	5.10	6.33	3.34	4.53	4.18	2.06	9.64	1962
1963	1.66	1.15	12.7	48.1	20.7	49.9	18.3	9.66	6.45	6.09	4.47	2.28	14.4	1963
1964	2.93	3.47	4.97	56.6	55.1	15.1	7.46	4.22	3.77	4.07	4.67	2.85	13.7	1964
1965	2.99	3.96	4.15	103	67.4	51.6	30.0	12.3	15.2	15.2	7.32	8.89	26.8	1965
1966	7.90	6.56	7.47	87.0	112	36.8	27.9	13.4	6.61	4.58	3.92	3.68	27.5	1966
1967	5.14	5.71	5.82	69.9	123	42.1	10.1	4.11	2.19	4.01	6.34	5.56	23.7	1967
1968	4.50	4.77	13.0	61.5	20.0	10.6	6.29	10.6	8.13	5.15	4.55	3.17	12.6	1968
1969	3.59	4.80	4.68	170	79.8	36.8	48.5	16.5	8.33	11.9	13.1	13.1	34.3	1969
1970	10.9	11.2	12.1	77.6	180	74.3	49.9	28.5	13.9	14.7	21.7	14.1	42.6	1970
1971	12.0	11.6	12.8	62.0	65.7	77.4	46.9	22.5	8.40	19.5	26.6	21.9	32.3	1971
1972	21.2	21.0	16.0	120	131	67.9	16.7	6.29	6.83	10.0	14.2	17.7	39.0	1972
1973	18.3	14.0	14.7	14.1	9.28	11.2	9.69	5.57	9.14	17.5	14.5	13.5	12.6	1973
MEAN	5.20	4.69	8.21	81.1	104	59.9	46.8	22.4	15.5	16.0	13.1	7.57	31.1	MEAN

LOCATION - LAT 49 51 02 N
LONG 099 56 12 W

DRAINAGE AREA, 86 000 km²
REGULATED

ASSINIBOINE RIVER AT BRANDON - STATION NO. 05MH001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1906	---	37.4 ON SEP 29	---	---	1906
1907	---	212 ON MAY 02	---	---	1907
1908	---	159 ON JUL 01	---	---	1908
1909	---	119 ON MAY 13	---	---	1909
1910	---	103 ON JUL 05	---	---	1910
1911	---	105 ON JUN 08	---	---	1911
1912	---	202 ON MAY 21	---	---	1912
1913	---	422 ON MAY 01	10.8 RB ON FEB 06	2 440 000	1913
1914	---	166 ON MAY 30	3.00 B ON DEC 30	946 000	1914
1915	---	69.7 ON APR 18	1.05 B ON JAN 13	299 000	1915
1916	---	259 ON APR 19	1.82 RB ON JAN 09	1 230 000	1916
1917	---	184 ON MAY 29	2.55 B ON DEC 26	1 120 000	1917
1918	---	76.7 ON APR 07	1.96 B ON JAN 29	481 000	1918
1919	---	151 B ON APR 15	2.41 B ON MAR 17	561 000	1919
1920	---	217 ON MAY 19	3.37 B ON JAN 01	1 070 000	1920
1921	---	146 ON APR 27	3.06 B ON FEB 25	1 670 000	1921
1922	---	603 ON MAY 06	5.80 B ON MAR 11	2 600 000	1922
1923	---	651 ON MAY 07 *	5.15 B ON FEB 16	2 610 000	1923
1924	---	134 ON MAY 01	7.42 B ON DEC 31	939 000	1924
1925	---	258 ON APR 05	4.81 B ON DEC 31	1 590 000	1925
1926	---	112 ON APR 26	2.83 B ON JAN 31	568 000	1926
1927	---	484 ON MAY 05	4.50 B ON FEB 21	2 460 000	1927
1928	---	229 ON APR 13	3.96 B ON DEC 30	1 390 000	1928
1929	---	116 ON MAY 01	3.54 B ON DEC 31	435 000	1929
1930	---	98.5 ON APR 16	1.98 B ON FEB 08	420 000	1930
1931	---	39.4 ON APR 17	1.70 B ON FEB 12	188 000	1931
1932	---	75.0 ON APR 10	1.53 B ON JAN 01	300 000	1932
1933	---	98.5 ON APR 11	2.72 B ON FEB 01	593 000	1933
1934	---	116 ON APR 14	2.29 B ON DEC 31	507 000	1934
1935	---	165 ON JUL 03	1.87 B ON FEB 04	648 000	1935
1936	---	303 B ON APR 15	2.21 B ON DEC 31	959 000	1936
1937	---	49.3 ON APR 22	0.680B ON DEC 20	214 000	1937
1938	---	70.8 ON MAR 28	0.991B ON JAN 01	386 000	1938
1939	---	47.3 ON APR 26	1.50 B ON MAR 03	267 000	1939
1940	---	23.4 ON APR 25	0.470B ON FEB 04	117 000	1940
1941	---	94.3 ON APR 18	1.56 B ON FEB 27	283 000	1941
1942	---	174 B ON APR 09	0.198B ON FEB 21 *	722 000	1942
1943	---	187 ON APR 20	1.30 B ON MAR 06	1 060 000	1943
1944	---	73.6 ON JUL 08	0.963B ON JAN 15	392 000	1944
1945	---	88.3 ON APR 07	0.850B ON JAN 08	501 000	1945
1946	---	210 ON APR 09	1.25 B ON JAN 06	718 000	1946
1947	---	314 ON JUL 06	1.98 B ON JAN 04	1 720 000	1947
1948	---	450 ON MAY 07	4.64 B ON FEB 29	1 790 000	1948
1949	---	145 ON APR 14	0.793B ON FEB 16	586 000	1949
1950	---	157 ON JUL 16	2.52 B ON JAN 31	1 080 000	1950
1951	---	214 ON APR 15	3.24 B ON DEC 31	1 090 000	1951
1952	---	134 B ON APR 16	3.37 B ON NOV 21	602 000	1952
1953	---	165 ON JUN 04	1.70 B ON JAN 16	590 000	1953
1954	---	360 ON JUL 09	2.46 B ON JAN 17	1 490 000	1954
1955	---	541 ON MAY 20	11.8 B ON MAR 17	3 120 000	1955
1956	---	430 ON MAY 18	11.3 B ON DEC 23	2 860 000	1956
1957	---	243 ON MAY 05	4.67 B ON DEC 29	1 320 000	1957
1958	---	135 B ON APR 06	1.30 B ON DEC 21	378 000	1958
1959	---	89.5 ON APR 15	0.963B ON JAN 20	357 000	1959
1960	245 B AT 18:00 CST ON APR 15	241 ON APR 16	2.27 B ON DEC 18	959 000	1960
1961	---	22.1B ON APR 11	0.595 ON AUG 22	127 000	1961
1962	---	84.7 ON APR 28	1.05 B ON JAN 27	304 000	1962
1963	90.6 AT 14:00 CST ON JUN 13	89.8 ON JUN 13	0.799B ON FEB 07	453 000	1963
1964	153 AT 19:00 CST ON APR 17	133 ON APR 18	1.76 A ON AUG 25	434 000	1964
1965	200 AT 06:00 CST ON APR 20	199 ON APR 20	2.58 B ON JAN 16	846 000	1965
1966	154 AT 12:00 CST ON MAY 06	154 ON MAY 06	2.85 B ON NOV 30	868 000	1966
1967	---	159 ON APR 21	1.80 ON SEP 09	748 000	1967
1968	---	81.0 ON APR 12	2.44 B ON DEC 31	400 000	1968
1969	362 AT 07:49 CST ON APR 17 *	360 ON APR 17	2.28 B ON JAN 02	1 080 000	1969
1970	223 AT 23:38 CST ON MAY 15	222 ON MAY 16	10.1 ON SEP 17	1 340 000	1970
1971	165 AT 09:21 CST ON APR 18	142 ON APR 18	6.26 ON SEP 25	1 020 000	1971
1972	223 AT 08:00 CST ON APR 20	221 ON APR 20	5.13 ON SEP 06	1 230 000	1972
1973	---	24.5B ON APR 05	4.02 ON AUG 20	398 000	1973
				981 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1969

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO. 05MJ001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	14.2	11.3	11.3	147	318	130	108	113	57.3	33.2	---	14.2	---	1913
1914	10.0	9.01	9.20	96.2	173	93.7	35.1	16.2	12.2	11.6	8.50	5.51	40.1	1914
1915	3.45	3.97	5.94	30.2	23.9	17.9	18.9	15.4	10.8	12.4	9.91	4.53	13.1	1915
1916	6.42	6.18	6.44	202	189	143	112	41.7	22.3	23.5	21.5	12.2	65.6	1916
1917	6.61	5.96	6.91	69.0	206	113	74.3	32.8	19.1	15.6	16.2	8.13	48.0	1917
1918	3.14	3.25	5.52	72.0	40.1	38.1	26.5	17.7	17.5	12.6	11.8	7.85	21.7	1918
1919	6.58	5.90	6.04	113	80.5	36.8	38.8	17.6	14.6	15.1	10.7	6.55	29.3	1919
1920	5.29	4.86	8.13	86.2	240	115	39.6	22.5	13.7	12.1	13.6	7.45	47.5	1920
1921	5.21	3.75	5.13	113	148	93.2	117	39.5	35.5	56.2	50.7	30.7	60.8	1921
1922	16.8	8.88	17.7	162	412	278	90.6	46.9	32.2	27.2	26.7	16.6	95.0	1922
1923	13.3	11.7	10.6	154	478	203	148	105	50.6	39.6	32.1	27.5	107	1923
1924	12.4	11.6	14.5	82.6	134	62.3	61.3	32.7	25.8	28.4	22.4	15.1	42.0	1924
1925	8.71	7.46	16.7	265	209	125	84.0	32.7	20.0	20.1	16.6	13.2	68.3	1925
1926	7.96	7.57	11.6	56.5	60.9	35.9	27.5	14.9	20.6	25.2	20.4	15.4	25.4	1926
1927	12.1	10.2	20.2	226	438	284	159	79.8	56.2	64.1	28.8	19.2	117	1927
1928	16.1	12.7	33.4	247	170	120	147	75.2	42.1	29.8	24.0	10.9	77.5	1928
1929	8.07	8.36	10.4	49.9	73.6	47.8	25.0	11.0	7.95	8.58	7.28	8.65	22.3	1929
1930	7.02	5.31	7.70	138	79.2	40.4	27.3	13.0	10.0	10.3	7.06	5.87	29.2	1930
1931	6.33	6.09	9.12	36.4	20.6	12.4	11.0	7.07	7.21	7.84	7.65	4.81	11.4	1931
1932	3.87	3.24	4.94	79.2	42.1	18.3	15.1	8.42	7.19	7.92	7.66	5.34	16.9	1932
1933	4.29	2.89	4.75	122	73.2	61.9	35.1	13.6	9.00	7.03	7.98	6.95	29.1	1933
1934	5.98	6.84	28.2	108	72.2	28.4	13.6	7.55	5.83	7.65	6.90	3.80	24.6	1934
1935	3.13	3.63	4.26	79.0	41.7	32.7	150	44.9	22.6	15.4	9.43	6.68	34.7	1935
1936	6.14	5.34	3.95	159	164	57.7	28.6	12.9	10.1	9.58	7.37	3.18	39.0	1936
1937	3.11	3.58	4.33	29.7	34.5	28.5	12.8	6.91	5.20	8.12	6.29	3.27	12.2	1937
1938	2.67	3.35	30.0	76.5	40.7	19.0	12.8	8.56	6.99	6.04	5.07	4.56	18.0	1938
1939	4.12	3.90	4.40	53.9	29.3	17.1	12.1	9.88	6.23	6.22	6.29	4.61	13.2	1939
1940	1.83	2.08	2.54	16.3	20.5	10.9	7.28	6.27	5.75	5.96	4.47	3.37	7.28	1940
1941	3.13	4.05	3.91	74.3	40.7	22.7	10.9	6.40	10.5	9.47	6.07	5.69	16.4	1941
1942	1.89	2.99	11.5	184	84.0	48.6	29.6	21.1	28.8	20.5	12.9	5.52	37.4	1942
1943	5.86	5.27	5.18	192	171	140	77.5	34.7	17.2	14.4	12.2	6.70	56.9	1943
1944	3.38	4.11	4.13	29.2	37.3	47.2	93.3	38.2	27.0	21.8	14.2	8.36	27.5	1944
1945	6.17	6.88	27.2	102	66.8	41.1	35.9	19.1	12.2	13.1	9.12	6.54	28.9	1945
1946	4.71	4.77	27.6	152	59.6	25.2	32.5	17.5	11.1	17.5	17.7	9.34	31.6	1946
1947	4.76	4.87	5.93	144	217	91.8	224	58.7	31.2	27.0	17.7	13.2	70.5	1947
1948	11.5	8.80	8.67	63.5	383	210	89.0	66.5	29.4	19.7	15.3	12.5	76.8	1948
1949	10.4	6.30	5.47	188	151	87.6	35.9	33.1	14.1	13.7	15.2	10.4	47.7	1949
1950	6.17	5.60	5.03	112	228	155	117	79.7	39.4	29.1	21.0	12.4	67.9	1950
1951	11.8	11.0	13.4	167	237	118	57.7	22.0	22.2	28.3	21.2	14.6	60.5	1951
1952	7.66	7.79	7.45	109	95.7	39.6	23.1	13.0	19.9	21.3	9.75	8.80	29.6	1952
1953	5.66	5.76	5.74	102	97.2	146	144	121	36.0	33.7	38.7	19.0	64.9	1953
1954	16.3	13.4	18.0	66.2	147	187	307	147	68.0	97.6	68.9	41.6	98.8	1954
1955	28.3	25.1	21.3	308	440	376	194	94.0	54.7	48.2	28.8	25.4	137	1955
1956	19.5	16.4	17.1	182	473	368	192	89.2	53.3	37.9	30.7	25.8	126	1956
1957	18.4	12.8	27.8	137	230	90.0	47.9	32.3	26.4	23.3	21.6	17.8	57.4	1957
1958	7.82	8.95	11.4	102	37.9	24.2	17.6	9.10	7.78	9.84	9.85	4.87	20.6	1958
1959	4.55	3.78	5.26	78.0	38.3	25.0	21.6	10.4	9.82	20.3	21.7	13.2	21.0	1959
1960	8.83	10.3	9.66	259	195	101	40.3	15.5	11.1	11.4	9.14	5.46	56.2	1960
1961	5.72	4.28	9.33	44.0	73.3	11.2	6.26	3.50	4.43	5.79	4.80	2.77	10.4	1961
1962	2.76	2.52	2.89	72.3	67.8	30.2	15.7	28.4	17.6	9.37	8.61	5.40	22.0	1962
1963	4.84	4.88	9.11	93.0	59.1	58.6	32.7	17.7	11.7	10.7	7.37	6.08	23.9	1963
1964	5.49	6.63	7.53	78.3	85.3	31.1	18.5	12.0	11.5	12.0	8.27	4.86	23.5	1964
1965	5.26	5.70	5.61	141	115	79.8	57.8	30.6	27.3	32.6	16.7	15.0	44.4	1965
1966	11.0	11.4	38.3	183	168	69.2	41.6	19.8	15.0	9.59	7.33	6.48	48.5	1966
1967	8.14	8.04	9.39	108	155	69.5	21.2	9.76	5.70	7.02	6.91	7.71	34.7	1967
1968	7.91	7.42	15.6	89.5	32.2	16.7	12.0	17.8	21.3	14.9	11.2	6.31	21.0	1968
1969	4.36	6.02	6.39	289	322	136	98.3	51.5	22.2	18.3	16.4	17.7	82.6	1969
1970	16.8	15.1	15.0	115	264	183	115	58.8	24.5	25.3	24.4	18.0	73.2	1970
1971	15.3	14.8	16.8	93.0	124	113	78.9	25.9	18.3	27.3	34.4	28.7	50.7	1971
1972	24.8	25.5	43.0	96.2	217	110	55.2	23.1	16.1	23.2	23.6	21.5	56.7	1972
1973	23.3	19.4	24.2	30.6	16.6	22.4	19.0	14.4	13.2	28.3	18.1	17.5	20.7	1973
1974	16.2	16.8	19.7	147	363	315	141	73.0	44.7	39.4	38.2	36.6	105	1974
1975	12.3	28.8	28.9	62.8	248	247	169	89.4	72.0	102	76.3	54.4	101	1975
1976	46.8	39.9	34.7	312	389	249	150	84.5	46.0	30.5	22.4	18.4	119	1976
1977	21.3	18.2	18.2	29.5	22.5	17.2	19.4	15.6	17.6	18.8	18.7	17.9	19.6	1977
1978	18.9	19.6	22.1	98.4	54.8	26.8	19.9	14.6	14.3	15.5	14.2	13.9	28.0	1978
1979	12.0	13.4	16.4	110	239	234	117	35.6	18.7	15.3	16.4	19.5	70.8	1979
1980	23.0	20.0	18.6	54.5	23.9	11.5	11.1	14.2	16.8	18.2	19.3	17.9	20.7	1980
1981	15.3	13.3	29.9	27.1	16.6	15.4	13.9	8.88	17.3	16.3	16.6	13.5	17.0	1981
1982	13.4	12.5	13.3	97.6	110	71.1	21.0	14.5	16.1	21.3	22.4	21.1	36.2	1982
1983	22.4	21.8	27.3	139	178	91.1	37.6	38.8	31.2	24.5	29.4	19.3	65.1	1983
1984	20.5	17.4	16.7	33.4	30.4	43.6	29.4	12.6	9.44	15.6	16.0	17.9	21.9	1984
1985	17.7	18.5	42.2	137	84.7	64.7	22.5	22.1	29.0	28.5	25.5	27.5	43.3	1985
1986	25.1	25.1	56.0	169	162	70.5	24.6	29.7	18.5	21.5	18.5	19.7	53.3	1986
1987	19.5	19.7	22.2	155	69.4	27.1	21.6	29.9	21.1	19.3	17.6	14.6	35.8	1987
1988	9.52	7.96	13.5	33.7	64.9	50.2	33.2	10.9	12.4	8.83	8.17	6.34	21.6	1988
1989	4.72	5.66	8.03	66.5	18.4	11.6	8.55	4.67	8.17	11.4	10.6	9.60	14.0	1989
1990	8.90	9.04	21.4	98.2	65.4	44.5	32.4	21.1	12.8	13.1	19.1	11.8	29.8	1990
MEAN	10.9	10.1	14.9	116	144	91.4	62.5	33.8	22.0	21.6	18.0	13.3	46.2	MEAN

LOCATION - LAT 49 52 09 N LONG 097 24 10 W DRAINAGE AREA, 153 000 km²
REGULATED

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO. 05MJ001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	396 ON MAY 08	---	---	1913
1914	---	185 ON MAY 19	2.49 B ON DEC 31	1 270 000	1914
1915	---	47.9 ON APR 27	3.23 B ON JAN 01	415 000	1915
1916	---	614 ON APR 27 *	5.86 ON FEB 11	2 070 000	1916
1917	---	216 ON MAY 31	3.43 B ON DEC 31	1 510 000	1917
1918	---	129 ON APR 09	2.49 B ON JAN 29	684 000	1918
1919	---	216 ON APR 17	5.66 B ON FEB 26	926 000	1919
1920	---	275 ON MAY 01	4.45 B ON FEB 25	1 500 000	1920
1921	---	174 ON APR 21	3.40 B ON FEB 26	1 920 000	1921
1922	---	547 ON MAY 18	8.21 B ON FEB 21	3 000 000	1922
1923	---	592 ON MAY 16	9.88 B ON MAR 31	3 370 000	1923
1924	---	300 ON APR 29	10.4 B ON DEC 31	1 330 000	1924
1925	---	388 ON APR 07	7.11 B ON FEB 28	2 160 000	1925
1926	---	117 ON APR 30	7.36 B ON FEB 09	802 000	1926
1927	---	518 ON MAY 15	10.0 B ON MAR 03	3 690 000	1927
1928	---	360 ON APR 24	8.86 B ON DEC 31	2 450 000	1928
1929	---	114 ON MAY 02	5.38 B ON NOV 21	702 000	1929
1930	---	276 ON APR 13	4.67 B ON FEB 14	923 000	1930
1931	---	54.4 ON APR 13	4.25 B ON NOV 25	358 000	1931
1932	---	191 ON APR 18	2.92 B ON FEB 22	534 000	1932
1933	---	202 ON APR 19	3.43 B ON FEB 16	918 000	1933
1934	---	217 ON APR 19	3.31 B ON DEC 30	775 000	1934
1935	---	269 ON JUL 08	2.63 B ON FEB 06	1 090 000	1935
1936	---	473 ON APR 22	0.566B ON DEC 11 *	1 230 000	1936
1937	---	64.6B ON APR 20	2.15 B ON DEC 11	385 000	1937
1938	---	146 B ON APR 10	2.21 B ON JAN 01	567 000	1938
1939	---	92.3B ON APR 16	3.54 B ON DEC 08	415 000	1939
1940	---	60.9 ON APR 25	1.27 B ON JAN 13	230 000	1940
1941	---	264 B ON APR 15	2.69 B ON JAN 23	519 000	1941
1942	---	317 ON APR 16	0.714B ON JAN 13	1 180 000	1942
1943	---	289 ON APR 15	4.11 B ON DEC 31	1 790 000	1943
1944	---	116 ON JUL 13	2.55 B ON JAN 15	868 000	1944
1945	---	139 ON APR 12	4.39 B ON DEC 19	911 000	1945
1946	---	206 ON APR 14	4.33 B ON MAR 12	997 000	1946
1947	---	320 ON JUL 13	4.22 B ON JAN 11	2 220 000	1947
1948	---	473 ON MAY 18	7.84 B ON MAR 14	2 430 000	1948
1949	---	430 ON APR 18	5.21 B ON MAR 07	1 500 000	1949
1950	---	281 ON MAY 12	3.94 B ON MAR 08	2 140 000	1950
1951	---	286 ON APR 20	3.45 B ON DEC 31	1 910 000	1951
1952	---	230 B ON APR 17	5.85 B ON DEC 01	936 000	1952
1953	---	232 B ON APR 13	4.62 B ON JAN 26	2 050 000	1953
1954	---	382 ON JUL 16	12.0 B ON FEB 11	3 120 000	1954
1955	484 AT 01:00 CST ON MAY 24	481 ON MAY 23	12.3 B ON NOV 09	4 330 000	1955
1956	569 AT 16:00 CST ON APR 26	564 ON APR 26	14.9 B ON FEB 21	3 980 000	1956
1957	249 AT 11:00 CST ON MAY 12	248 ON MAY 12	10.8 B ON DEC 31	1 810 000	1957
1958	283 B AT 21:00 CST ON APR 06	222 B ON APR 06	2.89 B ON DEC 17	649 000	1958
1959	181 B AT 18:00 CST ON APR 14	146 B ON APR 14	3.45 B ON FEB 10	662 000	1959
1960	566 AT 17:00 CST ON APR 19	566 ON APR 18	4.62 B ON DEC 29	1 780 000	1960
1961	140 B AT 12:30 CST ON APR 19	61.4B ON APR 16	1.98 B ON DEC 21	329 000	1961
1962	430 AT 01:00 CST ON APR 24	306 ON APR 24	2.35 B ON MAR 21	694 000	1962
1963	247 AT 08:30 CST ON APR 08	204 ON APR 08	1.13 B ON JAN 27	753 000	1963
1964	277 AT 02:00 CST ON APR 18	228 ON APR 18	4.22 B ON DEC 20	742 000	1964
1965	351 AT 02:00 CST ON APR 19	345 ON APR 19	4.50 B ON JAN 04	1 400 000	1965
1966	314 B AT 05:00 CST ON APR 14	292 B ON APR 14	3.89 B ON DEC 09	1 530 000	1966
1967	248 AT 20:00 CST ON APR 20	236 ON APR 20	3.88 B ON NOV 08	1 100 000	1967
1968	204 B AT 14:10 CST ON APR 11	153 B ON APR 10	4.39 B ON DEC 31	664 000	1968
1969	597 AT 02:54 CST ON APR 28	595 ON APR 28	3.79 B ON JAN 11	2 610 000	1969
1970	340 AT 06:00 CST ON MAY 21	340 ON MAY 20	9.29 B ON NOV 26	2 310 000	1970
1971	160 AT 10:00 CST ON APR 20	158 ON APR 20	12.8 B ON FEB 06	1 600 000	1971
1972	---	240 ON MAY 18	14.0 ON SEP 22	1 790 000	1972
1973	---	62.6B ON APR 05	8.50 ON SEP 09	652 000	1973
1974	422 AT 23:35 CST ON APR 24	419 ON APR 25	14.9 B ON FEB 01	3 300 000	1974
1975	271 AT 04:00 CST ON MAY 25	271 ON MAY 25	25.5 B ON DEC 02	3 200 000	1975
1976	614 AT 08:00 CST ON APR 25 *	614 ON APR 25	12.5 B ON DEC 04	3 750 000	1976
1977	---	58.3B ON APR 13	9.85 ON AUG 27	617 000	1977
1978	---	142 B ON APR 21	7.53 B ON NOV 16	881 000	1978
1979	309 B AT 14:15 CST ON APR 24	270 B ON APR 24	9.03 B ON NOV 12	2 230 000	1979
1980	142 B AT 18:32 CST ON APR 17	99.8B ON APR 17	8.71 B ON NOV 16	654 000	1980
1981	---	61.5B ON APR 02	5.91 ON AUG 23	537 000	1981
1982	264 AT 04:35 CST ON APR 18	214 B ON APR 18	11.2 ON SEP 13	1 140 000	1982
1983	226 AT 11:16 CST ON APR 19	213 ON APR 19	12.1 B ON NOV 27	1 740 000	1983
1984	145 AT 21:32 CST ON APR 07	98.3 ON APR 08	6.71 ON SEP 02	692 000	1984
1985	239 B AT 18:52 CST ON APR 11	196 B ON APR 11	7.87 ON AUG 02	1 370 000	1985
1986	331 AT 22:48 CST ON APR 04	267 ON APR 05	9.01 ON OCT 02	1 680 000	1986
1987	271 B AT 16:01 CST ON APR 09	246 B ON APR 09	8.62 B ON NOV 27	1 130 000	1987
1988	84.5 AT 09:52 CST ON MAY 20	83.9 ON MAY 20	3.83 B ON DEC 17	684 000	1988
1989	130 B AT 00:31 CST ON APR 12	126 B ON APR 11	2.86 ON AUG 14	440 000	1989
1990	227 B AT 12:00 CST ON APR 19	176 B ON APR 19	6.81 B ON FEB 04	941 000	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 460 000	MEAN

ASSINIBOINE RIVER AT ST. JAMES - STATION NO. 05MJ002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	179	188	80.2	60.3	87.9	130	---	---	---	1912
1913	---	---	---	283	337	141	118	113	---	---	---	---	---	1913
MEAN	---	---	---	283	258	165	99.1	86.7	87.9	130	---	---	---	MEAN

LOCATION - LAT 49 52 30 N DRAINAGE AREA, 154 000 km^2
LONG 097 11 30 W NATURAL FLOW

ASSINIBOINE RIVER AT ST. JAMES - STATION NO. 05MJ002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	---	---	---	1913
				---	MEAN

ASSINIBOINE RIVER NEAR BRANDON - STATION NO. 05MH013

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	12.4	12.4	17.3	147	210	177	91.6	54.2	36.0	31.9	28.9	26.8	70.7	1974
1975	25.0	24.6	23.8	78.7	196	126	75.6	57.1	63.3	59.5	48.1	33.3	67.8	1975
1976	28.9	27.3	18.2	335	227	122	96.0	52.8	22.3	21.2	20.2	17.7	82.2	1976
1977	18.0	13.7	11.7	16.2	14.5	11.0	12.6	9.91	8.75	12.5	15.7	18.6	13.6	1977
1978	16.9	17.2	20.5	50.6	28.3	11.8	8.67	4.11	5.60	7.39	13.2	11.3	16.3	1978
1979	11.0	11.0	18.7	106	214	120	60.0	14.3	9.51	11.1	14.8	17.8	50.9	1979
1980	17.9	17.1	17.2	43.6	13.2	7.91	8.30	8.76	10.8	11.3	14.5	12.9	15.2	1980
1981	11.8	12.8	18.9	13.5	8.39	8.64	4.98	3.72	4.45	10.2	14.8	12.5	10.4	1981
1982	11.4	11.7	9.99	55.2	43.0	26.7	6.60	6.40	4.44	9.96	15.1	16.3	18.0	1982
1983	19.3	18.4	20.2	98.7	97.7	58.6	24.9	30.6	11.1	13.4	21.9	16.5	36.0	1983
1984	18.8	18.2	14.2	17.3	10.6	12.9	21.1	5.16	4.63	8.17	18.0	18.1	13.9	1984
1985	17.8	18.1	34.9	93.4	61.2	42.1	13.5	13.8	17.5	19.9	29.4	25.3	32.2	1985
1986	22.3	21.6	43.7	116	101	38.3	14.4	10.2	7.73	12.4	17.2	18.1	35.2	1986
1987	17.5	16.7	19.8	108	24.3	14.4	12.8	9.60	9.62	13.0	15.5	14.7	22.9	1987
1988	10.1	7.42	7.39	34.3	64.5	48.3	23.1	8.14	6.10	3.62	5.70	4.96	18.6	1988
1989	4.71	5.34	7.61	19.2	6.16	6.11	4.20	3.95	5.39	7.72	9.99	9.40	7.47	1989
1990	8.59	11.3	21.0	83.2	44.6	32.9	26.2	17.8	8.29	11.5	13.9	10.3	24.1	1990
MEAN	16.0	15.6	19.1	83.3	80.3	50.9	29.7	18.3	13.9	15.6	18.6	16.7	31.5	MEAN

LOCATION - LAT 49 52 20 N LONG 100 06 10 W DRAINAGE AREA, 85 100 km^2 REGULATED

ASSINIBOINE RIVER NEAR BRANDON - STATION NO. 05MH013

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	309 A ON APR 22	12.2 B ON FEB 22	2 230 000	1974
1975	262 AT 16:38 CST ON MAY 01 *	261 ON MAY 01	17.5 B ON APR 12	2 140 000	1975
1976	---	617 ON APR 18 *	15.2 B ON MAR 29	2 600 000	1976
1977	20.9 AT 23:31 CST ON APR 14	20.7 ON APR 14	7.28 ON SEP 04	429 000	1977
1978	66.3 AT 20:50 CST ON APR 18	63.4 ON APR 18	3.14 ON AUG 21	513 000	1978
1979	---	314 B ON APR 27	7.57 ON AUG 27	1 610 000	1979
1980	103 B AT 08:52 CST ON APR 15	95.1B ON APR 15	6.76 ON JUN 26	482 000	1980
1981	---	26.1B ON MAR 04	2.38 ON AUG 10	327 000	1981
1982	117 AT 12:40 CST ON APR 22	108 ON APR 22	3.65 ON SEP 26	569 000	1982
1983	191 AT 10:45 CST ON APR 26	190 ON APR 26	8.31 ON SEP 14	1 130 000	1983
1984	35.5B AT 16:00 CST ON APR 02	35.0B ON APR 02	3.09 ON SEP 06	440 000	1984
1985	156 AT 16:34 CST ON APR 11	141 ON APR 11	8.53 ON AUG 02	1 020 000	1985
1986	202 B AT 20:01 CST ON APR 03	193 B ON APR 03	6.41 ON SEP 14	1 110 000	1986
1987	225 AT 06:06 CST ON APR 11	225 ON APR 11	8.50 ON SEP 09	722 000	1987
1988	81.3 AT 19:12 CST ON MAY 16	81.0 ON MAY 16	2.82 ON NOV 02	590 000	1988
1989	27.9B AT 02:23 CST ON APR 05	27.8B ON APR 05	1.93 ON AUG 10 *	236 000	1989
1990	109 AT 16:24 CST ON APR 27	108 ON APR 27	6.89 ON SEP 12	761 000	1990
				995 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MH005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	9.45	35.6	21.2	8.42	4.80	4.28	5.06	6.12	---	---	---	1961
1962	---	---	3.85	59.4	56.7	26.8	14.5	15.1	10.9	10.2	---	---	---	1962
1963	---	---	18.5	68.5	32.6	52.5	27.8	14.1	11.1	10.4	---	---	---	1963
1964	---	---	6.56	83.3	87.9	28.1	19.9	9.82	13.9	10.6	---	---	---	1964
1965	---	---	5.85	154	107	78.0	61.3	30.0	33.5	34.9	---	---	---	1965
1966	---	---	39.5	155	176	68.9	40.9	21.0	15.2	9.34	---	---	---	1966
1967	---	---	7.75	105	162	63.6	17.6	8.09	5.30	7.20	7.68	7.29	---	1967
1968	7.65	7.59	24.0	79.6	28.0	16.1	11.3	16.1	20.6	16.3	12.7	7.49	20.6	1968
1969	6.16	7.34	8.99	338	292	130	91.8	44.3	19.4	18.0	18.0	17.6	82.8	1969
1970	16.3	15.6	17.2	156	315	193	118	55.5	24.1	19.7	28.9	19.0	81.9	1970
1971	16.3	15.9	17.3	106	133	123	79.0	41.5	15.5	24.7	17.9	29.1	53.6	1971
1972	25.2	25.1	66.2	201	223	107	49.1	18.9	14.9	18.1	22.8	21.6	66.1	1972
1973	22.6	22.7	22.7	27.4	23.0	25.9	21.1	14.1	16.1	20.6	19.2	16.6	21.4	1973
1974	15.5	16.9	22.0	324	464	345	153	74.2	48.0	43.9	41.7	35.8	132	1974
1975	31.2	27.9	28.6	127	449	333	181	94.8	85.0	104	74.7	55.5	133	1975
1976	44.8	36.1	35.8	908	588	255	156	82.8	40.0	29.5	22.8	19.8	184	1976
1977	21.7	18.8	20.8	28.6	27.8	19.5	23.5	18.2	17.0	18.4	17.9	20.8	21.1	1977
1978	19.2	19.7	25.0	97.5	53.4	22.5	20.1	13.8	13.4	11.7	19.3	13.0	27.3	1978
1979	17.9	17.4	24.8	223	399	281	118	30.0	13.6	13.4	21.1	16.4	98.1	1979
1980	19.2	18.5	18.6	51.3	21.0	14.4	14.0	17.6	16.3	19.4	22.3	16.8	20.7	1980
1981	17.0	17.9	30.9	24.0	17.0	15.7	11.0	10.0	11.7	15.8	18.3	15.0	17.0	1981
1982	15.5	14.3	12.4	115	109	59.8	16.9	13.8	12.2	18.4	25.1	21.9	36.2	1982
1983	24.6	22.0	32.5	225	187	85.0	37.7	43.8	29.0	25.2	33.9	20.5	63.9	1983
1984	21.2	19.7	20.3	31.5	35.6	35.2	31.0	10.5	9.11	15.5	17.1	22.7	22.5	1984
1985	17.9	19.0	65.7	135	83.5	61.3	19.9	21.9	26.2	30.1	34.7	28.7	45.3	1985
1986	27.3	26.3	65.7	168	164	63.4	27.9	20.1	13.1	24.2	27.3	23.1	54.2	1986
1987	21.3	21.6	19.0	216	82.9	26.2	22.3	22.0	17.6	20.9	20.4	17.0	42.1	1987
1988	11.1	8.12	12.8	40.1	69.0	52.6	32.4	11.3	9.81	6.46	7.32	8.57	22.5	1988
1989	6.60	6.81	9.58	73.2	15.1	10.2	8.20	5.89	8.63	11.3	13.1	11.1	14.9	1989
1990	9.18	10.6	22.8	99.6	57.9	41.9	34.1	22.4	12.6	15.5	17.5	16.2	30.0	1990
MEAN	18.9	17.8	24.6	149	149	88.1	48.8	26.9	19.6	21.3	24.3	20.1	56.1	MEAN

LOCATION - LAT 49 41 54 N DRAINAGE AREA, 152 000 km²
LONG 098 53 56 W REGULATED

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MH005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	57.2B ON APR 10	---	---	1961
1962	---	184 B ON APR 20	---	---	1962
1963	---	107 B ON APR 08	---	---	1963
1964	---	144 E ON APR 20	---	---	1964
1965	---	379 B ON APR 14	---	---	1965
1966	---	224 ON MAY 09	---	---	1966
1967	---	219 B ON APR 22	---	---	1967
1968	---	105 ON APR 13	6.74B ON DEC 31	651 000	1968
1969	---	694 A ON APR 24	5.38B ON JAN 30	2 610 000	1969
1970	---	501 ON APR 28	14.7 B ON MAR 02	2 580 000	1970
1971	195 AT 23:00 CST ON APR 17	193 ON APR 18	10.8 B ON NOV 08	1 690 000	1971
1972	---	314 ON APR 21	13.3 ON SEP 17	2 090 000	1972
1973	---	56.4B ON APR 01	10.6 ON AUG 28	675 000	1973
1974	926 AT 05:05 CST ON APR 22	909 ON APR 22	13.5 B ON JAN 27	4 170 000	1974
1975	515 AT 20:00 CST ON MAY 01	498 E ON MAY 01	24.6 B ON FEB 18	4 200 000	1975
1976	1 470 AT 02:00 CST ON APR 20 *	1 460 ON APR 20 *	12.7 B ON NOV 30	5 830 000	1976
1977	60.6 AT 09:45 CST ON JUL 13	42.2 ON JUL 13	10.4 B ON NOV 22	666 000	1977
1978	---	154 B ON APR 10	10.9 ON OCT 23	862 000	1978
1979	561 A AT 10:45 CST ON APR 24	546 A ON APR 24	10.2 ON OCT 06	3 100 000	1979
1980	99.9 AT 16:00 CST ON APR 17	97.5 ON APR 17	9.21B ON DEC 21	656 000	1980
1981	---	41.8B ON MAR 22	6.20 ON AUG 22	536 000	1981
1982	---	239 A ON APR 16	10.8 B ON MAR 23	1 140 000	1982
1983	---	334 A ON APR 11	13.8 B ON DEC 19	2 020 000	1983
1984	84.1B AT 15:18 CST ON APR 06	56.1B ON APR 06	6.94 ON AUG 27	710 000	1984
1985	277 B AT 20:52 CST ON APR 03	247 B ON MAR 28	9.73B ON FEB 01	1 430 000	1985
1986	274 AT 16:44 CST ON APR 05	264 ON APR 05	12.1 ON SEP 19	1 710 000	1986
1987	477 B AT 11:04 CST ON APR 06	333 B ON APR 07	8.57 ON NOV 21	1 330 000	1987
1988	84.9 AT 18:08 CST ON MAY 17	84.6 ON MAY 19	4.00B ON NOV 15 *	712 000	1988
1989	177 B AT 19:44 CST ON APR 07	173 B ON APR 07	4.87 ON AUG 11	471 000	1989
1990	158 AT 06:44 CST ON APR 16	146 B ON APR 16	6.82B ON JAN 30	947 000	1990
				1 770 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR MINIOTA - STATION NO. 05ME006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	2.72	10.3	8.23	3.45	1.36	0.496	0.854	1.96	---	---	---	1961
1962	---	---	2.02	31.3	32.6	8.93	3.69	3.00	3.59	3.55	---	---	---	1962
1963	---	---	5.30	27.3	15.5	17.9	13.8	5.92	5.06	3.99	---	---	---	1963
1964	---	---	2.91	44.4	37.7	10.1	5.02	3.20	2.96	3.81	---	---	---	1964
1965	---	---	1.75	73.5	44.7	43.4	15.1	7.05	7.79	8.08	---	---	---	1965
1966	---	---	3.56	103	80.9	26.3	23.8	10.2	4.65	2.06	---	---	---	1966
1967	---	---	3.31	49.8	94.4	27.5	6.49	3.07	1.90	3.19	---	---	---	1967
1968	---	---	8.22	42.9	12.0	6.41	4.10	4.95	4.54	1.87	---	---	---	1968
1969	---	---	3.57	92.0	57.1	29.4	25.5	8.51	7.00	9.82	---	---	---	1969
1970	---	---	9.22	60.0	108	51.0	38.9	23.4	9.39	12.1	---	---	---	1970
1971	---	---	9.85	50.3	55.7	43.6	22.4	13.3	4.48	13.1	---	---	---	1971
1972	---	---	22.4	80.2	95.7	58.2	8.52	5.85	6.53	10.1	---	---	---	1972
1973	---	---	11.7	9.26	6.70	8.69	6.66	4.17	7.89	11.6	12.3	12.2	---	1973
1974	12.9	13.1	19.7	97.6	151	135	80.7	46.5	33.2	30.1	29.6	27.0	56.5	1974
1975	24.4	23.0	23.5	55.7	144	97.1	65.0	47.0	35.9	30.2	34.9	32.0	51.2	1975
1976	26.6	23.5	14.6	230	147	102	77.3	44.2	19.5	20.5	19.3	16.8	61.6	1976
1977	15.3	10.8	11.2	11.0	8.49	7.20	8.64	7.85	5.87	8.13	17.0	14.3	10.5	1977
1978	12.9	14.5	10.4	35.6	13.9	7.03	4.62	2.74	4.58	7.56	17.0	10.4	12.4	1978
1979	8.83	10.1	27.7	105	136	89.0	50.0	9.36	8.79	11.2	12.3	16.3	40.5	1979
1980	17.4	15.3	16.3	33.4	7.08	6.11	7.19	6.61	5.41	8.69	15.5	13.6	12.7	1980
1981	9.38	10.6	10.6	7.95	3.75	3.95	1.59	1.65	3.39	9.24	13.3	9.48	7.04	1981
1982	10.4	8.40	6.48	31.4	32.6	20.9	5.19	4.77	3.81	10.5	13.6	14.2	13.5	1982
1983	16.7	15.6	21.1	58.4	74.5	47.1	22.3	27.4	9.53	13.9	21.4	17.0	28.8	1983
1984	16.7	15.0	17.1	12.7	6.61	11.2	18.5	3.54	4.26	9.02	18.1	17.3	12.5	1984
1985	16.8	19.1	27.2	83.6	52.3	37.0	10.8	9.48	13.9	15.0	28.0	22.9	27.9	1985
1986	21.3	20.5	44.8	74.8	58.1	25.3	9.32	9.71	7.71	10.8	19.0	16.5	26.5	1986
1987	15.3	16.0	13.4	63.1	12.0	18.1	11.6	9.27	9.79	11.8	14.0	11.4	15.7	1987
1988	8.96	5.63	5.57	28.6	53.1	45.1	18.4	9.09	6.23	4.19	5.91	5.37	16.4	1988
1989	6.11	6.51	8.93	15.4	3.75	3.03	2.21	3.93	3.58	8.38	9.16	8.87	6.64	1989
1990	9.08	12.5	21.6	70.0	22.1	23.9	23.4	15.9	6.39	10.4	11.7	10.3	19.7	1990
MEAN	14.7	14.1	13.2	56.0	52.5	33.6	19.7	11.7	8.22	10.2	17.3	15.3	24.7	MEAN

LOCATION - LAT 50 06 39 N LONG 101 02 08 W DRAINAGE AREA, 76 100 km² REGULATED

ASSINIBOINE RIVER NEAR MINIOTA - STATION NO. 05ME006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1961	---	12.5B ON APR 08	---	---	1961
1962	---	89.8 ON APR 26	---	---	1962
1963	---	36.0 ON JUN 11	---	---	1963
1964	---	79.9B ON APR 17	---	---	1964
1965	---	150 B ON APR 20	---	---	1965
1966	---	148 ON APR 29	---	---	1966
1967	---	112 ON MAY 13	---	---	1967
1968	---	64.6 ON APR 15	---	---	1968
1969	---	278 ON APR 15	---	---	1969
1970	---	142 ON MAY 03	---	---	1970
1971	---	112 B ON APR 14	---	---	1971
1972	---	173 B ON APR 19	---	---	1972
1973	15.1B AT 17:47 CST ON MAR 31	14.6B ON MAR 31	---	---	1973
1974	273 AT 11:52 CST ON APR 22	270 ON APR 22	12.5 B ON FEB 02	1 780 000	1974
1975	174 AT 17:15 CST ON MAY 21	174 ON MAY 21	12.7 B ON APR 11	1 620 000	1975
1976	462 AT 23:09 CST ON APR 11 *	447 ON APR 12 *	13.4 B ON MAR 04	1 950 000	1976
1977	22.9 AT 06:00 CST ON NOV 10	22.6 ON NOV 09	4.79 ON JUL 29	331 000	1977
1978	---	21.5B ON APR 10	4.39 ON AUG 14	390 000	1978
1979	279 AT 14:42 CST ON APR 24	264 ON APR 24	6.15 ON AUG 23	1 280 000	1979
1980	---	59.2B ON APR 11	3.50 ON MAY 26	401 000	1980
1981	17.4 AT 14:13 CST ON APR 01	17.0 ON APR 02	0.995 ON JUL 29 *	222 000	1981
1982	---	67.3B ON APR 16	3.66 ON SEP 07	426 000	1982
1983	145 AT 22:05 CST ON APR 24	144 ON APR 24	7.63 ON SEP 10	908 000	1983
1984	31.9B AT 23:53 CST ON MAR 29	31.7B ON MAR 29	2.39 ON AUG 30	395 000	1984
1985	142 AT 15:50 CST ON APR 10	136 ON APR 10	6.61 ON AUG 09	881 000	1985
1986	183 B AT 21:37 CST ON APR 03	180 B ON APR 04	7.26 ON SEP 18	835 000	1986
1987	159 AT 14:55 CST ON APR 09	156 A ON APR 09	7.03 B ON MAR 19	496 000	1987
1988	63.5 AT 16:04 CST ON MAY 09	63.0 ON MAY 09	3.06 B ON OCT 28	517 000	1988
1989	29.4B AT 20:33 CST ON APR 05	28.8B ON APR 05	1.77 ON JUL 22	209 000	1989
1990	94.8 AT 04:33 CST ON APR 25	94.4 ON APR 25	5.76 ON SEP 19	623 000	1990
				780 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR PORTAGE LA PRAIRIE - STATION NO. 05MJ003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1923	---	---	---	---	465	186	150	105	48.6	38.6	31.2	---	---	1923
1924	---	---	---	---	127	64.8	64.7	31.2	25.2	26.9	---	---	---	1924
1925	---	---	---	282	195	125	81.4	28.4	18.3	25.9	---	---	---	1925
1926	---	---	---	61.5	59.1	38.3	27.3	14.6	24.8	25.7	20.1	---	---	1926
1927	---	---	---	215	460	268	156	79.2	54.4	58.5	---	---	---	1927
1928	---	---	---	---	161	126	148	64.1	27.4	24.1	---	---	---	1928
1929	---	---	---	---	79.6	54.9	30.1	13.1	9.27	10.6	---	---	---	1929
1930	---	---	---	---	80.3	47.1	31.2	13.6	9.26	---	---	---	---	1930
1952	---	---	---	---	---	---	---	---	---	13.6	11.4	8.27	---	1952
1953	5.97	6.36	6.86	119	104	159	152	122	54.4	32.0	40.6	18.6	68.7	1953
1954	15.8	13.5	16.6	68.7	148	199	321	131	62.3	99.4	72.1	41.0	99.6	1954
1955	27.8	24.6	20.8	342	487	337	181	83.7	55.8	50.8	28.3	26.5	139	1955
1956	18.4	16.4	19.1	228	403	307	203	90.4	58.7	38.0	34.7	24.7	134	1956
1957	18.5	12.3	30.9	128	217	84.0	43.7	29.6	24.0	21.2	23.0	16.7	54.3	1957
1958	8.39	8.80	13.2	96.4	37.4	18.8	14.8	8.67	7.66	10.3	10.7	4.29	19.9	1958
1959	4.15	4.35	10.7	72.5	37.2	23.0	20.0	9.06	8.47	17.6	21.6	10.1	19.9	1959
1960	10.4	10.2	8.16	274	193	97.3	38.5	12.8	8.81	10.0	7.96	4.32	56.2	1960
1961	4.89	5.29	10.7	41.0	23.4	11.4	5.65	3.41	4.82	8.84	8.67	3.19	10.9	1961
1962	3.94	3.84	4.25	66.1	64.6	27.8	12.8	15.6	11.3	9.54	10.1	4.99	19.6	1962
1963	1.67	0.895	4.49	73.9	37.8	57.7	33.0	16.1	11.6	11.0	8.59	5.80	21.9	1963
1964	5.33	6.18	6.55	86.9	92.7	31.0	17.0	9.78	10.8	12.4	9.26	5.32	24.4	1964
1965	6.05	6.20	5.97	144	108	80.5	59.2	30.1	31.0	36.0	18.3	15.7	45.2	1965
1966	13.4	10.9	39.4	154	171	70.1	43.8	22.4	16.9	10.6	8.27	5.68	47.3	1966
1967	6.67	6.93	8.01	99.1	161	69.4	19.1	8.30	5.07	7.73	8.19	6.84	33.9	1967
1968	6.62	7.08	15.0	78.9	31.6	17.5	12.3	16.8	20.9	15.7	13.7	6.50	20.1	1968
1969	4.42	7.02	8.63	336	295	132	95.8	45.5	21.0	19.4	19.1	16.9	83.5	1969
1970	15.5	14.4	16.4	106	266	187	121	58.8	25.3	28.4	27.0	17.1	74.0	1970
1971	15.1	14.8	16.8	95.4	127	116	79.4	44.5	17.9	29.9	34.4	29.6	51.9	1971
1972	26.0	24.6	45.3	94.8	221	107	52.6	22.0	12.7	23.2	23.9	20.3	56.5	1972
1973	22.9	18.2	23.0	29.3	16.3	23.4	20.6	14.1	15.4	31.6	19.4	16.6	20.9	1973
1974	16.1	17.2	20.5	140	343	301	144	71.4	45.6	42.3	40.9	35.5	102	1974
1975	31.3	29.1	29.8	66.0	260	247	168	88.0	74.0	101	72.0	56.8	102	1975
1976	46.4	39.0	34.9	334	367	241	151	83.7	46.2	31.3	22.7	18.2	118	1976
1977	21.7	19.0	19.6	28.0	24.8	18.5	21.6	16.6	17.3	18.8	19.2	20.5	20.5	1977
1978	18.8	19.8	24.4	93.0	55.2	27.7	22.7	16.4	15.3	17.2	16.5	13.6	28.3	1978
1979	14.1	15.5	14.9	93.0	239	236	119	38.9	22.6	18.2	20.7	20.5	71.3	1979
1980	21.8	20.7	20.4	49.6	25.2	12.5	11.4	15.3	19.2	21.4	20.5	21.9	21.6	1980
1981	16.1	16.6	26.9	22.1	18.6	17.1	13.8	11.4	19.9	19.1	17.0	11.8	17.5	1981
1982	14.3	13.4	11.2	105	119	73.6	23.5	16.1	17.4	20.1	24.3	20.9	38.2	1982
1983	23.9	21.6	29.3	140	176	87.7	39.8	40.5	31.9	25.1	30.1	23.9	56.1	1983
1984	21.6	20.7	20.0	30.9	34.6	35.5	30.0	12.9	10.1	15.9	23.5	16.8	22.9	1984
1985	20	21.0	42.6	133	87.2	62.5	22.7	24.5	33.7	34.4	40.5	33.1	46.3	1985
1986	27.9	26.7	31.3	158	150	68.1	29.6	24.0	21.2	19.3	20.4	22.4	51.6	1986
1987	19.4	21.1	24.8	137	65.3	28.3	23.7	24.8	22.8	21.3	19.9	15.7	35.3	1987
MEAN	15.9	15.0	20.0	127	161	107	71.1	37.9	25.7	26.8	23.6	17.9	52.4	MEAN

LOCATION - LAT 49 56 09 N LONG 098 16 48 W

DRAINAGE AREA, 152 000 km²

REGULATED

ASSINIBOINE RIVER NEAR PORTAGE LA PRAIRIE - STATION NO. 05MJ003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1923	---	626 ON MAY 10	---	---	1923
1924	---	---	---	---	1924
1925	---	334 ON APR 07	---	---	1925
1926	---	121 ON APR 28	---	---	1926
1927	---	570 ON MAY 13	---	---	1927
1928	---	---	---	---	1928
1929	---	121 ON APR 29	---	---	1929
1930	---	---	---	---	1930
1952	---	---	---	---	1952
1953	---	297 ON JUN 07	5.27 B ON JAN 20	2 170 000	1953
1954	---	425 ON JUL 13	11.8 B ON FEB 10	3 140 000	1954
1955	---	629 ON MAY 24	13.0 B ON NOV 19	4 390 000	1955
1956	---	637 B ON APR 21	14.4 B ON JAN 30	4 230 000	1956
1957	---	238 ON MAY 09	10.2 B ON DEC 31	1 710 000	1957
1958	---	188 ON APR 08	2.94 B ON DEC 15	628 000	1958
1959	---	185 B ON APR 10	3.60 B ON JAN 27	627 000	1959
1960	592 AT 18:00 CST ON APR 15	586 ON APR 15	3.37 B ON DEC 05	1 780 000	1960
1961	79.6 AT 13:45 CST ON APR 18	62.3 ON APR 15	2.29 B ON DEC 16	345 000	1961
1962	255 B AT 20:45 CST ON APR 20	199 B ON APR 21	3.37 B ON JAN 30	618 000	1962
1963	147 B ON APR 11	131 B ON APR 10	0.708B ON JAN 21 *	690 000	1963
1964	---	162 ON APR 21	4.81 B ON JAN 01	772 000	1964
1965	504 B AT 07:30 CST ON APR 16	439 B ON APR 16	4.67 B ON APR 03	1 420 000	1965
1966	---	229 B ON APR 07	4.87 B ON DEC 06	1 490 000	1966
1967	---	223 A ON APR 24	4.64 ON SEP 08	1 070 000	1967
1968	---	102 B ON APR 08	4.62 B ON DEC 28	637 000	1968
1969	651 AT 11:10 CST ON APR 24	626 ON APR 24	3.74 B ON JAN 13	2 630 000	1969
1970	343 AT 07:42 CST ON MAY 19	340 ON MAY 17	13.8 B ON JAN 30	2 330 000	1970
1971	179 AT 18:30 CST ON JUN 18	170 ON JUN 19	12.9 B ON FEB 04	1 640 000	1971
1972	---	242 ON MAY 14	12.5 B ON NOV 17	1 790 000	1972
1973	---	62.0B ON APR 12	9.94 ON AUG 26	659 000	1973
1974	368 B AT 10:00 CST ON APR 22	360 ON APR 23	14.2 B ON JAN 29	3 210 000	1974
1975	275 AT 21:30 CST ON MAY 23	273 ON MAY 23 *	26.2 B ON JAN 29	3 230 000	1975
1976	602 AT 18:30 CST ON APR 21 *	668 ON APR 21 *	12.1 B ON DEC 02	3 730 000	1976
1977	67.7 AT 19:30 CST ON JUL 14	49.8 ON JUL 15	10.9 ON AUG 25	645 000	1977
1978	---	154 B ON APR 10	10.7 B ON NOV 15	894 000	1978
1979	362 B AT 13:41 CST ON APR 25	326 B ON APR 25	9.88 B ON MAR 12	2 250 000	1979
1980	137 AT 18:38 CST ON APR 14	98.0 ON APR 14	8.86 ON NOV 14	684 000	1980
1981	59.1 AT 17:44 CST ON SEP 14	47.0 ON SEP 14	1.75 B ON DEC 04	353 000	1981
1982	205 AT 08:32 CST ON APR 25	202 ON APR 25	9.98 B ON MAR 11	1 210 000	1982
1983	205 AT 08:25 CST ON APR 28	204 ON APR 28	15.6 B ON NOV 24	1 770 000	1983
1984	86.6B AT 13:21 CST ON APR 06	74.7B ON APR 07	6.57 ON AUG 30	723 000	1984
1985	187 AT 23:22 CST ON APR 14	183 ON APR 14	12.7 ON JUL 31	1 460 000	1985
1986	205 AT 22:13 CST ON APR 01	193 ON APR 09	10.0 B ON NOV 09	1 630 000	1986
1987	208 AT 04:12 CST ON APR 19	205 ON APR 19	8.65 B ON DEC 20	1 110 000	1987
				1 650 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR ROSSENDALE - STATION NO. 05MJ005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	---	---	306	183	120	58.6	24.6	27.6	27.4	16.9	---	1970
1971	15.1	14.6	21.0	126	126	118	76.2	43.1	18.0	27.0	33.3	26.9	53.8	1971
1972	24.5	25.2	64.6	199	232	106	42.6	22.7	19.0	22.7	24.9	19.7	66.9	1972
MEAN	19.8	19.9	42.8	163	221	136	79.6	41.5	20.5	25.8	28.5	21.2	60.3	MEAN

LOCATION - LAT 49 45 32 N LONG 098 38 32 W DRAINAGE AREA, 152 000 km² REGULATED

ASSINIBOINE RIVER NEAR ROSSENDALE - STATION NO. 05MJ005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	---	---	---	---	1970
1971	---	198 ON APR 18 *	13.7B ON FEB 03 *	1 700 000	1971
1972	---	328 ON APR 22 *	16.1B ON DEC 29	2 110 000	1972
				1 910 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR RUSSELL - STATION NO. 05ME001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	---	1.55	2.83	136	128	52.5	96.5	72.2	29.9	16.9	14.3	6.00	---	1913
1914	2.85	2.68	3.81	49.2	103	33.5	10.2	3.56	3.34	4.08	3.71	2.09	18.6	1914
1915	1.27	1.78	1.84	16.7	7.00	7.28	10.5	4.23	3.36	3.95	3.68	2.12	5.31	1915
1916	1.42	1.42	1.27	40.9	23.8	51.6	26.4	11.1	7.55	9.88	9.37	3.18	15.6	1916
1917	1.41	1.07	1.47	45.6	112	31.2	42.4	10.8	7.80	4.96	5.14	1.67	20.6	1917
1918	1.84	1.41	4.30	30.5	12.8	13.5	15.2	9.78	6.63	6.27	5.54	3.08	9.22	1918
1919	2.38	2.15	1.98	27.4	19.9	11.3	28.0	8.18	7.60	8.46	4.88	2.68	10.5	1919
1920	2.65	2.66	2.79	36.0	152	36.9	11.2	5.70	4.71	5.29	7.29	3.72	22.7	1920
1921	2.43	2.18	2.76	86.8	91.6	76.0	89.5	35.8	29.8	41.4	42.6	14.9	43.1	1921
1922	8.15	5.20	5.45	185	323	95.2	24.3	12.6	9.94	6.14	9.15	4.87	57.7	1922
1923	3.61	3.72	3.60	58.6	187	58.6	57.7	24.1	9.30	8.08	6.72	4.19	35.8	1923
1924	2.52	2.30	2.76	21.8	25.9	16.4	9.56	13.7	8.20	9.18	6.42	4.07	10.3	1924
1925	3.00	2.44	3.53	109	33.2	30.8	21.0	7.76	5.17	5.87	4.15	2.63	19.0	1925
1926	1.71	1.79	3.59	51.5	23.8	14.6	6.13	3.25	6.73	11.0	9.71	4.95	11.5	1926
1927	3.10	2.54	2.62	119	134	49.9	33.8	18.4	18.6	20.4	11.8	5.21	36.1	1927
1928	3.71	2.96	23.6	87.2	46.9	30.6	36.0	10.6	4.89	4.52	3.01	2.49	21.4	1928
1929	2.21	1.91	2.27	30.3	23.2	12.1	6.70	3.66	3.24	3.86	3.98	3.14	8.05	1929
1930	2.04	1.62	2.79	26.9	14.3	10.5	6.72	3.34	2.85	3.38	3.27	2.15	6.66	1930
1931	1.27	1.24	2.63	24.5	6.90	4.83	3.63	2.82	2.71	3.06	2.09	0.921	4.80	1931
1932	0.650	1.08	1.32	25.3	10.2	5.62	7.44	4.04	3.35	---	---	---	---	1932
1942	---	---	---	---	---	---	6.95	6.62	6.16	---	---	---	---	1942
1943	---	---	---	---	22.4	17.3	8.32	3.93	2.64	2.83	---	---	---	1943
1944	---	---	---	---	6.70	4.92	3.24	1.54	2.35	2.40	---	---	---	1944
1945	---	---	---	19.1	16.8	8.97	8.31	3.52	3.20	4.15	---	---	---	1945
1946	---	---	---	39.8	12.3	5.47	7.06	3.10	3.98	5.53	---	---	---	1946
1947	---	---	---	---	51.4	28.1	35.1	7.51	4.34	7.47	---	---	---	1947
1948	---	---	---	---	157	18.8	10.4	13.1	4.43	3.26	---	---	---	1948
1949	---	---	---	14.2	6.92	13.9	6.25	4.72	2.46	2.71	---	---	---	1949
1950	---	---	---	---	29.0	12.9	8.68	7.26	3.10	4.07	3.92	2.14	---	1950
1951	1.50	1.64	1.60	36.4	57.2	14.7	9.47	6.56	8.88	13.4	10.1	4.60	13.9	1951
1952	1.92	1.69	1.98	54.8	21.8	8.97	4.77	2.78	3.42	3.57	2.45	1.62	9.12	1952
1953	1.97	1.74	2.66	34.6	20.1	33.6	76.3	44.7	20.8	12.8	12.4	5.85	23.1	1953
1954	3.81	3.09	3.12	39.1	84.6	129	92.9	16.8	19.6	23.8	22.5	8.80	37.3	1954
1955	3.66	3.34	3.24	114	171	66.9	22.0	9.80	4.12	4.62	4.32	2.91	34.3	1955
1956	3.15	1.48	2.76	28.0	107	61.0	25.1	10.6	7.29	6.11	7.38	3.98	28.9	1956
1957	3.09	4.51	5.27	47.9	94.3	14.1	6.84	3.81	2.83	3.10	2.82	2.17	16.0	1957
1958	1.85	1.84	2.81	16.8	6.54	3.32	2.18	2.33	2.26	2.44	3.07	1.57	3.80	1958
1959	1.44	1.10	3.03	23.5	10.4	7.03	7.26	2.34	2.49	3.93	4.60	3.44	5.88	1959
1960	2.48	1.78	2.82	62.6	47.7	22.0	7.75	1.80	1.13	1.76	1.71	1.29	12.9	1960
1961	1.22	1.08	2.13	4.84	4.83	2.35	0.957	0.352	0.582	1.56	1.51	1.42	1.91	1961
1962	0.966	0.586	2.25	28.0	24.1	6.00	1.61	1.28	1.59	1.61	2.33	2.11	5.26	1962
1963	0.968	0.916	3.55	16.6	7.21	5.47	4.82	1.71	1.32	1.41	1.76	1.48	4.03	1963
1964	1.70	1.79	2.50	12.0	11.9	3.71	1.66	1.48	1.07	2.10	2.32	1.47	3.84	1964
1965	1.35	1.27	1.41	35.3	23.3	29.4	9.75	4.57	3.55	4.76	3.05	2.30	9.98	1965
1966	2.85	2.04	2.93	67.6	57.8	16.0	16.8	7.49	3.41	2.45	3.00	2.30	15.2	1966
1967	1.28	1.70	2.93	12.5	57.1	14.1	3.82	1.81	0.510	1.22	1.74	1.48	8.47	1967
1968	2.29	1.49	2.78	23.7	5.45	3.80	2.33	1.70	0.233	0.235	0.367	0.550	3.83	1968
1969	0.616	0.756	0.917	14.1	16.8	2.02	2.00	2.09	1.84	1.78	3.86	4.44	4.28	1969
1970	4.17	3.69	3.82	21.8	48.5	15.7	10.3	4.03	2.58	1.83	2.65	3.80	10.3	1970
1971	3.61	3.59	3.77	5.77	16.5	6.45	14.8	7.84	4.72	4.49	11.7	12.8	7.63	1971
1972	12.6	13.5	13.4	13.8	78.3	46.9	2.91	2.26	1.66	2.23	13.5	15.0	18.4	1972
1973	12.6	9.35	5.61	1.75	1.53	1.39	1.10	1.90	4.01	6.34	9.77	9.48	5.40	1973
1974	8.96	8.90	20.4	26.1	60.7	55.4	48.2	13.9	6.01	6.03	11.6	13.8	23.4	1974
1975	13.4	13.3	13.1	9.80	56.1	40.3	39.6	27.7	7.82	6.86	18.7	18.7	22.2	1975
1976	18.4	15.0	7.15	39.5	51.7	45.8	43.5	22.0	7.52	7.15	9.36	8.51	21.0	1976
1977	7.55	5.13	4.05	1.70	1.59	2.39	3.97	5.77	3.94	3.63	12.3	11.9	5.33	1977
1978	12.1	12.9	8.88	4.56	1.19	0.763	0.605	1.36	3.23	4.90	8.44	6.14	5.37	1978
1979	8.15	9.92	24.3	30.6	53.3	50.3	39.7	5.09	6.31	7.53	10.8	11.4	21.5	1979
1980	11.3	10.6	12.4	6.04	1.50	5.13	5.13	4.35	4.36	4.31	8.05	7.62	6.74	1980
1981	2.09	1.41	2.73	1.78	0.651	0.888	0.662	0.777	2.68	5.57	8.49	7.93	3.85	1981
1982	9.01	8.62	2.35	2.22	0.811	0.697	0.659	0.736	0.879	1.24	7.67	11.2	3.66	1982
1983	10.2	9.02	15.1	4.24	36.6	30.2	15.1	10.3	3.70	6.22	13.2	11.8	14.8	1983
1984	12.4	10.3	5.48	1.19	1.02	10.8	17.6	3.96	4.28	7.84	10.1	12.7	8.15	1984
1985	13.5	17.6	17.5	18.0	41.7	27.1	4.67	4.50	6.85	5.43	17.5	15.3	15.8	1985
1986	12.6	14.8	16.3	26.5	33.1	15.4	3.17	2.66	5.49	8.88	13.7	14.2	14.2	1986
1987	12.2	9.19	3.60	11.4	6.56	8.71	8.31	7.69	7.69	8.43	9.86	8.98	8.54	1987
1988	8.28	4.81	1.83	19.9	42.1	43.9	13.3	8.44	4.18	3.12	3.33	3.13	13.4	1988
1989	5.08	7.28	8.37	2.69	1.22	1.18	1.27	3.76	2.87	1.80	2.72	4.69	3.41	1989
1990	5.65	10.7	16.0	23.3	9.50	16.6	16.1	11.0	4.21	5.28	6.67	7.13	11.0	1990
MEAN	5.05	4.69	5.57	35.0	47.6	23.9	17.9	8.69	5.68	6.13	7.74	5.79	14.6	MEAN

LOCATION - LAT 50 48 35 N DRAINAGE AREA, 19 300 km²
LONG 101 26 10 W REGULATED SINCE 1969

REMARKS - DISCHARGE RECORDS PRIOR TO JAN 1958 WERE COLLECTED AT MILLWOOD, APPROX. 13 KM DOWNSTREAM

ASSINIBOINE RIVER NEAR RUSSELL - STATION NO. 05ME001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	360 E ON APR 24	---	---	1913
1914	---	131 ON MAY 20	0.566B ON DEC 29	588 000	1914
1915	---	34.0 ON APR 17	1.27 B ON JAN 01	167 000	1915
1916	---	83.0 ON APR 23	1.27 B ON MAR 01	493 000	1916
1917	---	160 ON MAY 18	0.623B ON DEC 13	650 000	1917
1918	---	48.7 ON APR 05	1.08 B ON JAN 20	291 000	1918
1919	---	50.1 ON APR 20	1.42 B ON FEB 28	330 000	1919
1920	---	203 ON MAY 14	2.27 B ON MAR 03	719 000	1920
1921	---	138 ON MAY 03	2.15 B ON FEB 21	1 360 000	1921
1922	---	504 ON APR 29 *	3.74 B ON D/DC 31	1 820 000	1922
1923	---	411 ON MAY 01	3.06 B ON D&C 31	1 130 000	1923
1924	---	50.7 ON APR 26	2.21 B ON JAN 23	324 000	1924
1925	---	142 ON APR 19	1.95 B ON DEC 28	598 000	1925
1926	---	79.6 ON APR 19	1.47 B ON JAN 15	361 000	1926
1927	---	357 ON APR 26	2.27 B ON MAR 05	1 110 000	1927
1928	---	132 B ON APR 13	2.27 B ON NOV 04	676 000	1928
1929	---	70.8 ON APR 29	1.84 B ON FEB 19	254 000	1929
1930	---	54.9 ON APR 13	1.25 B ON FEB 12	210 000	1930
1931	---	51.6 B ON APR 11	0.709B ON DEC 22	151 000	1931
1932	---	53.2 B ON APR 13	0.595B ON JAN 25	---	1932
1942	---	---	---	---	1942
1943	---	---	2.52 ON SEP 20	---	1943
1944	---	20.8 B ON APR 21	---	---	1944
1945	---	31.1 B ON APR 03	---	---	1945
1946	---	64.8 B ON APR 04	---	---	1946
1947	---	116 ON APR 23	---	---	1947
1948	---	275 ON MAY 04	---	---	1948
1949	---	52.9 RB ON APR 02	---	---	1949
1950	---	75.0 ON APR 27	---	---	1950
1951	---	76.5 ON MAY 15	0.991B ON FEB 28	439 000	1951
1952	---	69.4 B ON APR 12	1.33 B ON FEB 06	288 000	1952
1953	---	88.1 ON JUL 17	1.27 B ON JAN 10	728 000	1953
1954	---	264 ON JUN 25	2.83 B ON JAN 31	1 180 000	1954
1955	---	273 ON MAY 15	2.21 B ON DEC 19	1 080 000	1955
1956	---	224 ON MAY 16	0.793B ON FEB 18	913 000	1956
1957	---	170 ON MAY 03	1.90 B ON DEC 31	504 000	1957
1958	36.2 AT 15:30 CST ON APR 08	35.1 ON APR 08	0.963 ON AUG 21	120 000	1958
1959	50.7 AT 08:30 CST ON APR 08	47.0 ON APR 08	0.623B ON FEB 19	185 000	1959
1960	128 AT 02:30 CST ON APR 29 *	128 ON APR 28	0.864 ON SEP 23	407 000	1960
1961	---	6.37 ON APR 20	0.159 ON AUG 22 *	60 100	1961
1962	---	74.2 R ON APR 24	0.198B ON FEB 08	188 000	1962
1963	---	21.1 B ON APR 19	0.280B ON MAR 10	127 000	1963
1964	---	19.6 B ON APR 22	0.872 ON SEP 04	115 000	1964
1965	---	75.3 ON APR 21	1.22 B ON FEB 23	315 000	1965
1966	---	118 ON APR 25	1.64 B ON FEB 02	478 000	1966
1967	---	70.2 ON MAY 15	0.215 ON SEP 06	267 000	1967
1968	---	48.4 B ON APR 14	0.164 ON SEP 15	121 000	1968
1969	---	47.3 A ON MAY 04	0.569B ON JAN 01	135 000	1969
1970	59.5 AT 09:43 CST ON MAY 03	59.5 ON MAY 02	1.18 B ON NOV 17	324 000	1970
1971	68.5 AT 19:48 CST ON MAY 14	65.1 ON MAY 14	0.606 ON MAY 04	241 000	1971
1972	112 AT 04:22 CST ON MAY 11	111 ON MAY 10	1.02 ON APR 03	383 000	1972
1973	---	15.1 B ON JAN 15	1.17 ON JUN 13	170 000	1973
1974	71.9 AT 02:23 CST ON MAY 22	71.1 ON MAY 21	5.83 ON OCT 02	739 000	1974
1975	96.6 AT 16:48 CST ON MAY 18	96.3 ON MAY 18	2.97 B ON APR 06	701 000	1975
1976	82.4 AT 06:55 CST ON APR 26	82.1 ON APR 26	6.31 B ON MAR 16	727 000	1976
1977	13.8 AT 16:00 CST ON NOV 07	13.6 ON NOV 07	1.01 ON JUN 08	168 000	1977
1978	---	13.9 B ON FEB 06	0.184 ON AUG 09	169 000	1978
1979	79.6 AT 21:29 CST ON APR 20	66.9 ON MAY 29	3.83 ON AUG 29	679 000	1979
1980	16.9 AT 21:52 CST ON APR 05	15.7 ON APR 05	0.612 ON MAY 23	213 000	1980
1981	10.5B AT 11:35 CST ON DEC 19	10.3 B ON DEC 19	0.442 ON AUG 20	121 000	1981
1982	---	14.2 B ON DEC 10	0.513B ON APR 03	116 000	1982
1983	39.3 AT 21:31 CST ON JUN 13	38.1 ON MAY 09	2.22 B ON MAR 07	467 000	1983
1984	25.5 AT 11:46 CST ON JUN 30	25.4 ON JUN 30	0.572 ON APR 28	258 000	1984
1985	42.7 AT 22:47 CST ON MAY 03	42.3 ON MAY 03	4.33 ON JUL 26	498 000	1985
1986	36.8 AT 08:30 CST ON MAR 30	36.2 ON MAR 30	3.03 ON JUL 22	446 000	1986
1987	33.9 AT 21:53 CST ON APR 05	29.3 ON APR 07	2.52 ON MAR 28	269 000	1987
1988	49.1 AT 00:54 CST ON MAY 16	48.3 ON MAY 16	1.05 B ON MAR 13	425 000	1988
1989	12.6B AT 21:30 CST ON APR 01	9.35B ON APR 01	0.026 ON OCT 25	107 000	1989
1990	38.9 AT 09:08 CST ON APR 22	38.6 ON APR 22	3.57 ON MAY 17	347 000	1990
				459 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1989

BACK LAKE NEAR OXFORD HOUSE - STATION NO. 04AA003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1987	29.4	27.6	26.4	38.0	61.5	---	---	---	---	29.7	18.0	12.2	---	1987
MEAN	29.4	27.6	26.4	38.0	61.5	---	---	---	---	29.7	18.0	12.2	---	MEAN

LOCATION - LAT 54 56 30 N LONG 095 14 50 W DRAINAGE AREA, 9 010 km^2 NATURAL FLOW

BACK LAKE NEAR OXFORD HOUSE - STATION NO. 04AA003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1987	---	---	---	---	1987
				---	MEAN

BADGER CREEK NEAR CARIWRIGHT - STATION NO. 05OA007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.226	0.133	0.051	0.021	0.002	0.079	0.080	0.745	---	---	---	1959
1960	---	---	0.007	16.2	0.732	0.232	0.031	0	0	0	---	---	---	1960
1961	---	---	0.130	0.702	0.078	0.008	0	0	0	0	---	---	---	1961
1962	---	---	0	2.28	0.106	0.319	0.005	0.003	0.001	0	---	---	---	1962
1963	---	---	0.216	0.356	0.017	1.05	0.387	0.027	0	0	---	---	---	1963
1964	---	---	0	3.18	0.238	0.190	0.048	0.011	0.070	0.029	---	---	---	1964
1965	---	---	0	3.46	3.02	0.918	0.614	0.956	0.825	0.616	---	---	---	1965
1966	---	---	1.41	2.08	1.97	0.282	0.233	0.219	0.114	0.131	---	---	---	1966
1967	---	---	0.015	1.90	1.50	0.494	0	0	0	0	---	---	---	1967
1968	---	---	0.197	0.122	0.022	0.001	0	2.79	3.37	0.313	---	---	---	1968
1969	---	---	0	38.8	5.89	1.13	2.76	0.299	0.074	0.043	---	---	---	1969
1970	---	---	0	6.58	9.58	5.58	2.93	0.938	0.177	0.085	---	---	---	1970
1971	---	---	0	19.9	4.15	3.03	4.69	0.698	0.116	0.280	0.157	0.029	---	1971
1972	0.008	0	4.59	5.48	2.09	1.12	0.121	0.229	0.024	0.019	0.023	0.004	1.14	1972
1973	0	0.005	0.232	0.059	0.131	0.916	0.247	0.016	0.106	0.127	0.055	0.021	0.160	1973
1974	0.004	0.001	0.005	33.8	13.9	3.48	0.358	0.062	0.016	0.014	0.012	0.010	4.28	1974
1975	0.004	0	0.004	9.11	4.23	0.915	0.084	0.001	0.012	0.016	0.010	0.005	1.19	1975
1976	0.007	0.012	0.032	23.4	1.88	0.205	0.039	0.009	0.007	0.006	0	0	2.11	1976
1977	0	0	0.041	0.056	0.135	0.012	0.038	0.001	0.001	0.002	0.003	0.005	0.025	1977
1978	0.005	0.003	0.024	4.43	0.235	0.051	0.215	0.006	0.006	0.007	0.003	0	0.411	1978
1979	0	0	0.001	22.4	9.60	0.840	0.179	0.059	0.047	0.019	0.017	0.011	2.76	1979
1980	0.005	0.001	0.007	1.21	0.012	0.081	0.002	0.068	0.176	0.227	0.293	0.037	0.175	1980
1981	0.009	0.897	1.73	0.538	0.276	0.198	0.058	0.025	0.017	0.043	0.082	0.038	0.323	1981
1982	0.012	0.005	0.343	7.42	2.27	0.53	1.15	0.500	0.332	0.566	0.264	0.099	1.29	1982
1983	0.043	0.008	0.627	6.85	1.17	0.553	0.334	0.024	0.008	0.028	0.024	0.014	0.801	1983
1984	0.004	0.009	0.723	0.713	0.937	0.053	0.011	0.003	0	0	0.006	0.010	0.207	1984
1985	0.001	0	3.71	0.522	0.081	0.040	0.080	0.013	0.008	0.021	0.040	0.014	0.383	1985
1986	0.007	0.004	2.31	1.98	1.62	1.42	0.824	0.203	0.080	0.248	0.714	0.141	0.799	1986
1987	0.013	0.009	0.717	16.1	1.27	0.126	0.004	1.19	0.104	0.030	0.023	0.019	1.62	1987
1988	0.004	0.001	0.023	0.081	0.013	0.009	0.001	0	0	0	0	0	0.011	1988
1989	0	0	0.001	2.65	0.016	0.004	0	0	0	0	0	0	0.220	1989
1990	0	0	0.107	1.10	0.002	0.042	0.006	0	0	0	0	0	0.104	1990
MEAN	0.006	0.050	0.545	7.30	2.10	0.808	0.483	0.263	0.180	0.113	0.086	0.023	0.948	MEAN

LOCATION - LAT 49 06 16 N DRAINAGE AREA, 1 530 km²
LONG 099 19 22 W NATURAL FLOW

BADGER CREEK NEAR CARIWRIGHT - STATION NO. 05OA007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.83 ON OCT 25	0 ON MAR 01 *	---	1959
1960	---	47.0 ON APR 07	0 E ON MAR 01	---	1960
1961	---	2.12 B ON APR 04	0 B ON MAR 01	---	1961
1962	---	9.63 B ON APR 06	0 B ON MAR 01	---	1962
1963	---	2.52 ON JUN 04	0 ON MAR 01	---	1963
1964	---	15.8 B ON APR 05	0 B ON MAR 01	---	1964
1965	---	17.0 ON APR 13	0 B ON MAR 01	---	1965
1966	---	4.84 B ON MAR 31	0 B ON MAR 01	---	1966
1967	---	5.74 ON APR 29	0 B ON MAR 01	---	1967
1968	---	12.6 ON AUG 25	0 B ON MAR 01	---	1968
1969	---	207 B ON APR 12 *	0 B ON MAR 01	---	1969
1970	---	37.1 ON APR 30	0 B ON MAR 01	---	1970
1971	---	64.6 ON APR 11	0 B ON MAR 01	---	1971
1972	---	30.0 B ON MAR 19	0 B ON JAN 22	36 100	1972
1973	---	7.90 ON JUN 20	0 B ON JAN 01	5 040	1973
1974	---	158 ON APR 19	0.001B ON JAN 10	135 000	1974
1975	45.0 AT 09:30 CST ON APR 29	41.6 ON APR 29	0 B ON FEB 03	37 700	1975
1976	---	79.0 B ON APR 04	0 B ON NOV 08	66 600	1976
1977	0.906 AT 07:47 CST ON MAY 22	0.776 ON MAY 22	0 B ON JAN 01	780	1977
1978	---	24.4 B ON APR 06	0 B ON NOV 30	13 000	1978
1979	---	158 B ON APR 22	0 B ON JAN 01	86 900	1979
1980	8.73 B AT 22:39 CST ON APR 05	6.48 B ON APR 06	0 B ON MAR 07	5 540	1980
1981	2.34 B AT 04:02 CST ON FEB 25	4.65 B ON FEB 25	0.004B ON FEB 08	10 200	1981
1982	32.7 B AT 23:19 CST ON APR 12	26.5 B ON APR 13	0.004B ON FEB 16	40 600	1982
1983	25.8 B AT 00:10 CST ON APR 01	17.2 B ON APR 01	0.004B ON MAR 02	25 200	1983
1984	4.26 B AT 02:13 CST ON MAR 25	3.65 B ON MAR 25	0 ON AUG 19	6 540	1984
1985	24.3 B AT 01:10 CST ON MAR 20	21.6 B ON MAR 19	0 B ON JAN 08	12 100	1985
1986	9.17 B AT 22:36 CST ON MAR 18	6.44 B ON MAR 20	0.003B ON FEB 16	45 200	1986
1987	53.2 B AT 19:50 CST ON APR 05 *	48.8 B ON APR 05	0 ON JUL 05	51 100	1987
1988	0.407 AT 10:18 CST ON APR 06	0.383 ON APR 06	0 ON JUL 04	344	1988
1989	---	12.3 B ON APR 05	0 B ON JAN 01	6 930	1989
1990	7.66 B AT 00:33 CST ON APR 03	5.70 B ON APR 03	0 B ON JAN 01	3 280	1990
				29 900	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BALD HILL CREEK NEAR MCCREARY - STATION NO. 05LJ805

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	---	---	0.011	0.009	0.002	0	---	---	---	---	1961
1962	---	---	---	---	0.110	0.056	0.002	---	---	---	---	---	---	1962
1963	---	---	---	---	0.118	0.093	0.003	0.003	0.002	---	---	---	---	1963
1964	---	---	---	---	0.063	0.008	0.002	0.002	0.002	---	---	---	---	1964
1965	---	---	---	0.011	---	0.062	0.001	0.004	0.103	---	---	---	---	1965
1966	---	---	---	0.081	0.105	0.008	0.003	0.037	0.003	0.003	---	---	---	1966
1967	---	---	---	0.049	0.123	0.056	0.003	0.001	0	0.004	---	---	---	1967
1968	---	---	---	---	0.046	0.025	0.029	0.033	0.018	0.009	---	---	---	1968
1969	---	---	---	0.089	0.068	0.082	0.136	0.027	0.032	0.032	---	---	---	1969
1970	---	---	---	---	0.201	0.192	0.039	0.006	0.014	---	---	---	---	1970
1971	---	---	---	---	0.056	0.176	0.055	0.011	---	---	---	---	---	1971
1972	---	---	---	---	0.109	0.013	0.008	0.008	0.009	---	---	---	---	1972
1973	---	---	---	---	0.029	0.056	0.014	0.033	0.043	0.058	---	---	---	1973
1974	---	---	---	0.148	0.152	0.064	0.007	0.006	0.010	0.011	---	---	---	1974
1975	---	---	---	---	0.106	0.038	0	0.032	0.124	---	---	---	---	1975
1976	---	---	---	0.094	0.033	0.020	0.019	0	0	---	---	---	---	1976
1977	---	---	---	---	0.027	0.013	0.059	---	0.047	0.025	---	---	---	1977
1978	---	---	---	---	0.044	0.003	0	0	0.007	0.006	---	---	---	1978
1979	---	---	---	---	0.122	0.109	0.009	0.008	0.006	0.005	---	---	---	1979
1980	---	---	---	---	---	0.021	0.050	0.097	0.010	---	---	---	---	1980
1981	---	---	---	---	0.022	0.030	0	0	0.001	---	---	---	---	1981
1982	---	---	---	---	0.069	0.026	0.020	0.019	0.016	---	---	---	---	1982
1983	---	---	---	---	0.126	0.035	0.095	0.009	0.009	---	---	---	---	1983
MEAN	---	---	---	0.079	0.086	0.052	0.024	0.016	0.022	0.017	---	---	---	MEAN

LOCATION - LAT 50 42 16 N DRAINAGE AREA, 2.59 km²
LONG 099 40 00 W REGULATED SINCE 1961

DATA CONTRIBUTED BY - MANITOBA WATER RESOURCES BRANCH

BALD HILL CREEK NEAR MCCREARY - STATION NO. 05LJ805

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	---	---	---	1961
1962	---	---	---	---	1962
1963	---	---	---	---	1963
1964	---	---	---	---	1964
1965	---	---	---	---	1965
1966	---	---	---	---	1966
1967	---	---	---	---	1967
1968	---	---	---	---	1968
1969	---	---	---	---	1969
1970	---	---	---	---	1970
1971	---	---	---	---	1971
1972	---	---	---	---	1972
1973	---	---	---	---	1973
1974	---	---	---	---	1974
1975	---	---	---	---	1975
1976	---	---	---	---	1976
1977	---	---	---	---	1977
1978	---	---	---	---	1978
1979	0.158 AT 23:33 CST ON MAY 18 *	0.158 ON MAY 18 *	---	---	1979
1980	---	---	---	---	1980
1981	0.122 AT 09:15 CST ON JUN 16	0.119 ON JUN 16	0 ON JUL 05 *	---	1981
1982	---	---	---	---	1982
1983	---	---	---	---	1983
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

BARRINGTON RIVER ABOVE FIRST RAPIDS - STATION NO. 06EB003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	---	---	---	---	22.4	20.5	15.6	11.6	---	---	---	1974
1975	---	---	---	---	17.2	30.1	31.6	24.5	15.4	12.3	---	---	---	1975
1976	---	---	---	---	---	---	---	---	16.0	13.5	11.8	10.2	---	1976
1977	---	---	---	---	22.0	34.5	32.4	21.4	15.3	12.9	12.0	9.51	16.0	1977
1978	9.49	6.93	5.58	11.1	14.3	14.5	---	---	---	27.4	19.8	14.2	---	1978
1979	7.48	5.74	4.50	4.49	7.73	10.3	8.66	8.23	9.44	8.92	7.79	6.86	8.07	1979
	10.5	7.41	6.01	5.07										
1980	5.82	4.93	4.16	5.38	7.06	12.0	20.3	31.7	32.7	31.0	23.2	16.3	16.2	1980
1981	12.5	9.17	7.02	7.80	12.4	11.1	8.90	6.92	4.78	5.08	5.09	4.35	7.77	1981
1982	7.19	5.81	4.88	5.19	19.9	24.4	19.2	20.3	14.1	9.74	7.34	6.71	11.1	1982
1983	5.10	4.04	3.60	11.1	21.8	16.5	13.1	27.7	32.2	25.9	18.7	15.5	14.1	1983
1984	13.6	10.6	8.11	11.6	16.4	15.5	10.6	7.53	6.32	4.74	4.89	4.83	9.56	1984
1985	4.56	4.20	3.72	4.75	24.8	23.8	18.7	11.9	6.56	4.23	3.26	2.44	9.45	1985
1986	4.11	3.65	3.38	1.88	16.5	20.2	25.0	24.9	17.7	---	---	---	---	1986
1987	6.21	5.00	4.36	6.17	17.2	14.6	12.0	0.01	7.12	5.91	5.41	4.93	7.67	1987
1988	4.06	3.46	2.81	3.15	11.0	12.1	16.1	15.0	10.9	7.91	7.57	7.20	8.72	1988
1989	6.32	5.34	4.56	3.78	17.8	22.5	21.3	14.1	9.87	7.07	6.48	5.89	10.5	1989
1990	5.43	5.12	4.43	3.74	8.89	12.4	12.5	10.2	7.42	6.75	6.21	6.73	7.51	1990
MEAN	6.88	5.54	4.52	5.21	14.5	18.9	18.4	15.9	13.6	12.6	10.5	8.49	10.7	MEAN

LOCATION - LAT 56 45 30 N DRAINAGE AREA, 1 770 km²
LONG 099 58 25 W NATURAL FLOW

BARRINGTON RIVER ABOVE FIRST RAPIDS - STATION NO. 06EB003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	---	---	---	1974
1975	36.2 AT 16:49 CST ON JUN 30	35.7 ON JUN 30	---	---	1975
1976	---	---	---	---	1976
1977	38.2 AT 09:20 CST ON JUN 14	37.9 ON JUN 17	5.01 ON APR 01	506 000	1977
1978	---	---	---	---	1978
1979	12.4 AT 03:10 CST ON JAN 01	12.3 ON JAN 01	4.71 ON APR 10	255 000	1979
1980	38.4 AT 22:31 CST ON AUG 02	38.4 ON AUG 02	3.85 ON APR 13	514 000	1980
1981	19.2 AT 09:56 CST ON MAY 15	19.0 ON MAY 16	3.56 ON OCT 05	245 000	1981
1982	31.4 AT 12:00 CST ON MAY 07	31.4 ON MAY 07	1.73 ON APR 07	350 000	1982
1983	40.9 AT 12:00 CST ON SEP 21 *	40.9 ON SEP 21 *	3.34 ON APR 13	490 000	1983
1984	20.8 AT 21:05 CST ON APR 24	20.4 ON APR 24	4.11 ON OCT 16	302 000	1984
1985	29.4 AT 20:36 CST ON MAY 06	29.2 ON MAY 06	2.32 ON DEC 25	298 000	1985
1986	28.7 ON JUL 08	28.4 ON JUL 09	1.26 ON MAR 24 *	---	1986
1987	16.0 AT 14:37 CST ON JUN 05	15.8 ON JUN 05	4.17 ON APR 06	242 000	1987
1988	17.9 AT 11:35 CST ON JUL 11	17.8 ON JUL 11	4.55 ON MAR 27	276 000	1988
1989	24.7 AT 12:22 CST ON JUL 04	24.5 ON JUL 04	3.28 ON APR 21	330 000	1989
1990	14.6 AT 20:27 CST ON MAY 23	14.6 ON MAY 24	3.30 ON APR 20	237 000	1990
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		337 000	MEAN

BEAVER CREEK EAST OF BEAVER - STATION NO. 05LL028

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1976	---	---	0.001	3.50	0.103	0.034	0	0	0	0	---	---	0.446	1976
1977	---	---	0.001	0.032	0.037	0.005	0.033	0	0.004	0.021	---	---	0.017	1977
1978	---	---	0	0.805	0.076	0.013	0.099	0.001	0.013	0.002	---	---	0.127	1978
1979	---	---	0	5.54	2.86	0.471	0.008	0	0	0	---	---	1.10	1979
1980	---	---	0	0.173	0.004	0	0	0.336	0.004	0.003	---	---	0.065	1980
1981	---	---	0.038	0.062	0.115	0.257	0	0	0	0.158	---	---	0.079	1981
1982	---	---	0.047	0.611	0.537	0.154	0.053	0.009	0	0.011	---	---	0.177	1982
1983	---	---	0.001	2.80	0.237	0.101	0.024	0	0	0	---	---	0.389	1983
1984	---	---	0.148	0.235	0.356	0.438	0	0	0	0.002	---	---	0.147	1984
1985	---	---	0.315	0.449	0.072	0.002	0.011	0.352	0.024	0.175	---	---	0.175	1985
1986	---	---	1.70	1.97	2.49	0.010	0.636	0.014	0	0	---	---	0.854	1986
1987	---	---	0.912	1.33	0.019	0	0.011	0.558	0.008	0.005	---	---	0.354	1987
1988	---	---	0.006	0.209	0.206	0.001	0.001	0	0	0	---	---	0.053	1988
1989	---	---	0	0.169	0.020	0.684	0.011	0.001	0	0	---	---	0.109	1989
1990	---	---	1.02	0.777	0.412	0.477	0.012	0	0	0	---	---	0.336	1990
MEAN	---	---	0.279	1.24	0.503	0.178	0.060	0.085	0.004	0.025	---	---	0.295	MEAN

LOCATION - LAT 50 04 00 N LONG 098 37 40 W DRAINAGE AREA, 289 km^2 NATURAL FLOW

BEAVER CREEK EAST OF BEAVER - STATION NO. 05LL028

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1976	24.1 B AT 20:30 CST ON APR 05	17.0 B ON APR 05	0B ON MAR 01 *	9 450	1976
1977	1.07 AT 20:44 CST ON MAY 14	0.425 ON JUL 11	0B ON MAR 01	356	1977
1978	6.99B AT 12:37 CST ON APR 20	2.92 B ON APR 20	0B ON MAR 01	2 680	1978
1979	45.0 AT 01:41 CST ON APR 23 *	43.1 ON APR 23 *	0B ON MAR 01	23 300	1979
1980	7.46 AT 07:02 CST ON AUG 21	4.96 ON AUG 21	0B ON MAR 01	1 380	1980
1981	1.02 AT 02:39 CST ON JUN 02	0.679 ON JUN 02	0B ON MAR 01	1 660	1981
1982	1.79 AT 22:23 CST ON MAY 19	1.66 ON MAY 19	0B ON MAR 01	3 740	1982
1983	---	7.79 B ON APR 06	0B ON MAR 01	2 220	1983
1984	2.43B AT 01:00 CST ON MAY 08	2.18 ON JUN 20	0B ON MAR 01	3 100	1984
1985	4.09B AT 08:29 CST ON APR 05	2.08 B ON MAR 25	0B ON MAR 01	3 710	1985
1986	---	16.6 ON MAY 06	0B ON MAR 01	18 100	1986
1987	11.0 B AT 13:20 CST ON APR 05	6.09 B ON APR 05	0B ON MAR 01	7 490	1987
1988	1.87B AT 08:45 CST ON APR 05	1.23 B ON APR 05	0B ON MAR 01	1 110	1988
1989	4.78 AT 15:46 CST ON JUN 14	4.69 ON JUN 14	0B ON MAR 01	2 300	1989
1990	8.33B AT 00:39 CST ON MAR 31	6.30 B ON MAR 31	0B ON MAR 01	7 120	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		6 250	MEAN

BEAVER CREEK NEAR BEAVER - STATION NO. 05LL022

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	3.51	1.14	0.073	0	0.001	0	0	---	---	0.583	1974
1975	---	---	0	0.644	0.169	0.035	0.005	0.006	0.009	0.007	---	---	0.108	1975
MEAN	---	---	0	2.08	0.655	0.054	0.003	0.004	0.005	0.004	---	---	0.346	MEAN

LOCATION - LAT 50 03 37 N LONG 098 41 45 W DRAINAGE AREA, 257 km^2 NATURAL FLOW

BEAVER CREEK NEAR BEAVER - STATION NO. 05LL022

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	16.4 B ON APR 18 *	0B ON MAR 01 *	12 300	1974
1975	---	2.57B ON APR 12	0B ON MAR 01	2 290	1975
				7 300	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BELL RIVER NEAR BELLSITE - STATION NO. 05LF002

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	0.801	6.07	7.56	2.46	1.82	2.19	1.28	---	---	---	1954
1955	---	---	---	2.12	3.20	0.688	0.659	0.241	0.236	0.484	---	---	---	1955
1956	---	---	---	0.478	2.83	1.76	2.15	1.70	0.926	0.444	---	---	---	1956
1957	---	---	0.203	0.890	2.87	1.59	1.37	0.923	1.35	0.660	---	---	1.23	1957
1958	---	---	0.193	1.09	1.23	0.798	5.30	0.909	0.562	0.681	---	---	1.35	1958
1959	---	---	0.178	0.536	1.73	1.85	1.03	0.320	3.31	1.52	---	---	1.30	1959
1960	---	---	0.340	0.676	3.54	3.02	1.45	0.751	0.317	0.334	---	---	1.30	1960
1961	---	---	0.232	0.289	0.513	0.233	0.153	0.111	0.136	0.170	---	---	0.233	1961
1962	---	---	0.059	0.354	1.36	0.307	0.135	0.103	0.404	0.243	---	---	0.382	1962
1963	---	---	0.094	1.42	1.93	2.35	0.858	0.648	0.699	0.458	---	---	1.05	1963
1964	---	---	---	0.502	2.05	0.615	0.376	1.70	2.17	0.752	---	---	---	1964
1966	---	---	0.147	0.313	2.63	3.10	2.98	2.06	1.83	1.62	---	---	1.84	1966
1967	---	---	0.131	0.231	4.79	2.51	1.25	0.495	0.268	0.570	---	---	1.28	1967
1968	---	---	0.212	0.387	1.55	2.65	---	---	---	---	---	---	---	1968
1969	---	---	0.227	1.44	0.910	1.56	1.58	0.690	0.511	1.80	---	---	1.09	1969
1970	---	---	0.160	0.502	5.65	2.17	1.92	1.22	1.49	2.88	---	---	2.01	1970
1971	---	---	0.281	2.27	1.90	3.09	1.86	1.19	0.693	1.25	---	---	1.56	1971
1972	---	---	0.221	1.22	4.19	1.57	1.48	0.901	0.463	0.370	---	---	1.30	1972
1973	---	---	0.237	0.179	2.34	6.33	2.79	0.801	0.992	0.881	---	---	1.81	1973
1974	---	---	0.179	1.34	6.19	3.14	1.59	1.03	1.73	1.29	---	---	2.06	1974
1975	---	---	0.289	0.925	3.50	2.48	1.43	1.42	1.74	1.41	---	---	1.65	1975
1976	---	---	0.236	1.26	0.771	2.16	0.998	0.612	0.237	0.281	---	---	0.817	1976
1977	---	---	0.261	0.996	0.591	0.319	---	1.33	2.85	1.67	---	---	---	1977
1978	---	---	0.249	0.523	1.90	0.889	0.822	0.384	0.713	0.919	---	---	0.809	1978
1979	---	---	0.255	0.467	5.27	5.11	1.86	0.689	0.348	0.391	---	---	1.77	1979
1980	---	---	0.194	0.957	0.392	0.374	0.378	1.43	1.42	1.24	---	---	0.796	1980
1981	---	---	0.166	0.678	0.751	1.98	1.23	1.27	1.11	1.58	---	---	1.09	1981
1982	---	---	0.228	0.531	1.14	1.72	3.75	1.60	1.09	0.944	---	---	1.38	1982
1983	---	---	0.365	1.46	5.86	4.43	2.72	1.53	2.39	1.32	---	---	2.51	1983
1984	---	---	0.313	2.49	4.53	4.76	2.01	0.938	1.30	4.31	---	---	2.58	1984
1985	---	---	0.282	2.36	2.73	2.74	1.48	4.71	1.56	1.86	---	---	2.21	1985
1986	---	---	0.294	2.12	5.33	1.84	0.924	0.567	1.04	2.02	---	---	1.47	1986
1987	---	---	0.480	1.99	1.46	2.36	2.54	1.31	0.689	1.10	---	---	1.49	1987
1988	---	---	0.208	2.00	9.83	2.81	1.21	0.375	0.392	0.416	---	---	2.16	1988
1989	---	---	0.153	0.837	0.679	0.722	0.529	1.06	1.48	0.957	---	---	0.799	1989
1990	---	---	0.184	2.56	6.36	2.89	1.67	0.359	0.298	0.251	---	---	1.82	1990
MEAN	---	---	0.226	1.09	3.02	2.35	1.61	1.07	1.11	1.10	---	---	1.45	MEAN

LOCATION - LAT 52 36 10 N LONG 101 02 15 W DRAINAGE AREA 170 km^2 REGULATED SINCE 1955

BELL RIVER NEAR BELLSITE - STATION NO. 05LF002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	14.4 ON MAY 23	---	---	1954
1955	---	8.69 ON MAY 07	---	---	1955
1956	---	6.71 ON MAY 16	---	---	1956
1957	---	6.12 ON MAY 03	---	---	1957
1958	126 AT 03:00 CST ON JUL 06 *	45.9 ON JUL 06 *	0.198B ON MAR 01	26 100	1958
1959	14.2 AT 22:00 CST ON SEP 02	11.6 A ON JUN 28	0.142B ON MAR 01	27 600	1959
1960	8.72 AT 06:30 CST ON JUN 21	8.07 ON MAY 13	0.255A ON APR 08	27 600	1960
1961	0.855 AT 01:00 CST ON MAY 20	0.810 ON MAY 13	0.125 ON AUG 15	4 920	1961
1962	---	2.92 ON MAY 03	0 E ON MAR 01 *	8 080	1962
1963	7.59 AT 07:00 CST ON JUN 13	6.40 ON JUN 13	0.085E ON MAR 01	22 200	1963
1964	---	6.80 ON AUG 11	---	---	1964
1966	9.40 AT 17:15 CST ON AUG 28	6.09 ON JUL 16	0.119B ON MAR 01	38 900	1966
1967	13.7 AT 12:00 CST ON MAY 26	13.0 ON MAY 26	0.113B ON MAR 01	27 200	1967
1968	---	---	---	---	1968
1969	---	12.6 ON OCT 03	0.227B ON MAR 01	23 000	1969
1970	---	14.4 ON MAY 18	0.136B ON MAR 01	42 500	1970
1971	---	11.0 ON JUN 06	0.227B ON MAR 28	33 000	1971
1972	---	11.0 ON MAY 03	0.170B ON OCT 31	27 600	1972
1973	---	39.6 ON JUN 19	0.085B ON APR 10	38 300	1973
1974	---	21.8 ON MAY 22	0.164B ON MAR 01	43 600	1974
1975	---	8.50 A ON MAY 07	0.289B ON MAR 01	34 900	1975
1976	---	9.51 A ON JUN 14	0.210B ON OCT 29	17 300	1976
1977	---	8.07 E ON SEP 26	---	---	1977
1978	5.66 AT 00:01 CST ON MAY 03	5.10 ON MAY 03	0.210 ON AUG 31	17 100	1978
1979	---	18.2 E ON MAY 27	0.221B ON MAR 01	37 500	1979
1980	---	2.80 A ON SEP 04	0.170 ON AUG 02	16 800	1980
1981	7.51 AT 23:43 CST ON JUN 04	5.77 ON JUN 24	0.124B ON MAR 01	23 200	1981
1982	44.5 AT 13:15 CST ON JUL 17	21.1 ON JUL 18	0.136 ON MAY 19	29 200	1982
1983	19.7 AT 19:48 CST ON JUN 03	15.5 ON JUN 03	0.352B ON APR 07	53 100	1983
1984	19.3 AT 19:14 CST ON JUN 07	14.0 ON JUN 07	0.301 ON MAR 01	54 600	1984
1985	32.9 AT 17:00 CST ON AUG 13	28.5 A ON AUG 13	0.235B ON APR 06	46 900	1985
1986	8.20 AT 12:36 CST ON MAY 16	7.87 ON MAY 16	0.225B ON MAR 02	37 500	1986
1987	7.33 AT 22:57 CST ON JUL 06	5.98 ON JUL 07	0.105 ON MAR 08	31 500	1987
1988	51.8 E AT 11:29 CST ON MAY 01	36.3 ON MAY 01	0.188B ON MAR 01	45 700	1988
1989	8.87 AT 03:57 CST ON AUG 29	7.64 ON AUG 29	0.151B ON APR 02	16 900	1989
1990	16.1 AT 23:25 CST ON MAY 16	12.6 ON MAY 16	0.170B ON MAR 01	38 500	1990
				30 700	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BERENS RIVER ABOVE LITTLE GRAND RAPIDS - STATION NO. 05RD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	---	---	---	---	60.8	44.4	67.9	82.8	---	1914
1915	65.6	49.3	38.6	36.5	115	227	118	68.1	46.6	37.7	36.5	51.1	74.3	1915
1916	53.9	45.8	38.7	37.7	104	258	217	162	94.1	68.7	67.5	68.4	101	1916
1917	52.9	44.2	41.5	30.9	34.5	41.2	68.7	139	253	---	---	---	---	1917
1918	---	---	---	---	---	---	---	263	216	---	---	---	---	1918
1919	---	---	---	---	---	---	---	---	---	77.1	92.4	88.6	---	1919
1920	66.3	49.5	37.2	36.3	94.2	250	258	130	75.4	51.2	47.7	52.4	95.9	1920
1921	47.6	40.6	34.5	34.4	97.8	268	179	147	95.1	123	178	145	136	1921
1922	96.0	68.6	51.5	53.8	171	271	178	162	127	80.9	56.0	50.5	114	1922
1923	49.9	43.5	35.6	---	---	---	---	---	---	---	---	---	---	1923
MEAN	61.7	48.8	39.7	38.3	103	236	193	153	121	69.0	78.0	77.0	104	MEAN

LOCATION - LAT 52 03 00 N LONG 095 28 00 W
DRAINAGE AREA, 15 900 km^2
NATURAL FLOW

BERENS RIVER ABOVE LITTLE GRAND RAPIDS - STATION NO. 05RD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	261 ON JUN 03	32.8 ON NOV 10	2 340 000	1915
1916	---	279 ON JUN 17	34.3 ON APR 12	3 210 000	1916
1917	---	---	---	---	1917
1918	---	---	---	---	1918
1919	---	---	---	---	1919
1920	---	320 ON JUL 07	32.6E ON APR 03	3 030 000	1920
1921	---	428 ON JUN 21 *	31.1 ON APR 14 *	4 290 000	1921
1922	---	309 ON JUN 04	48.7E ON APR 14	3 600 000	1922
1923	---	---	---	---	1923
				3 290 000	MEAN

E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BERENS RIVER AT OUTLET OF LONG LAKE - STATION NO. 05RD007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	75.9	44.7	24.1	12.8	7.84	5.86	---	1957
1958	5.68	6.16	5.55	6.41	11.3	24.8	34.1	35.2	31.2	22.9	24.0	28.8	19.8	1958
1959	25.7	19.7	12.1	11.4	87.1	217	131	58.6	34.9	25.6	35.8	29.4	57.5	1959
1960	21.6	15.1	10.4	9.67	21.9	55.0	59.9	31.9	23.8	24.6	20.6	16.6	26.8	1960
1961	15.1	13.0	10.5	10.2	16.7	32.5	27.8	16.6	8.45	5.52	4.91	6.74	14.0	1961
1962	10.1	9.29	7.29	5.84	7.42	45.1	59.0	35.8	25.7	37.4	36.6	34.0	26.3	1962
1963	20.0	18.9	12.0	12.4	49.1	107	96.8	52.1	26.2	11.6	8.08	6.99	35.9	1963
1964	6.71	6.48	6.03	5.95	28.5	76.3	55.6	31.8	22.2	16.8	20.5	23.5	25.1	1964
1965	22.5	18.9	10.7	12.0	21.1	67.2	90.4	50.9	37.2	35.9	40.0	33.5	36.8	1965
1966	23.9	16.9	12.4	10.3	18.2	77.6	138	86.4	42.9	18.3	12.5	13.5	39.4	1966
1967	14.2	13.0	9.47	10.9	25.3	109	124	66.3	33.5	18.9	12.3	4.74	37.0	1967
1968	7.61	7.58	6.26	5.86	11.4	51.2	131	123	116	116	107	84.8	64.3	1968
1969	58.8	43.2	32.4	30.9	53.5	94.2	96.0	127	129	191	149	79.7	90.7	1969
1970	47.8	32.7	21.9	18.1	25.1	35.0	71.9	52.8	38.3	31.6	36.3	58.1	39.2	1970
1971	59.7	43.4	23.7	30.2	76.6	110	64.4	54.3	49.9	39.3	29.0	23.9	50.4	1971
1972	23.1	21.1	16.5	18.6	55.3	101	72.3	38.7	24.5	20.7	21.0	25.4	36.6	1972
1973	21.8	17.9	15.6	19.5	32.6	52.1	57.1	38.0	30.4	37.8	46.0	33.8	32.1	1973
1974	39.5	28.1	21.1	24.3	59.8	139	114	54.9	48.0	64.5	53.4	39.0	57.2	1974
1975	27.4	21.4	16.7	18.0	36.8	77.9	95.3	89.8	75.0	55.9	36.3	24.1	48.0	1975
1976	19.9	16.4	13.7	28.9	38.0	40.4	34.7	21.1	13.3	9.10	6.88	5.26	20.6	1976
1977	4.95	4.89	5.03	7.56	9.61	12.6	24.5	24.4	53.3	82.6	64.0	39.9	27.9	1977
1978	24.9	18.2	14.9	17.3	36.1	46.6	76.7	103	98.7	88.6	60.3	41.9	52.5	1978
1979	29.5	21.8	16.7	24.6	74.4	180	98.8	47.1	38.0	35.0	32.9	31.3	52.6	1979
1980	29.8	25.4	19.0	20.0	27.3	38.4	43.4	29.7	32.9	24.2	19.5	21.5	27.6	1980
1981	17.9	14.2	11.5	13.1	18.1	27.4	48.3	41.3	29.7	29.8	31.9	32.5	26.4	1981
1982	29.5	23.1	18.8	23.6	58.5	128	123	68.7	40.9	32.2	23.7	20.1	49.3	1982
1983	18.3	16.3	14.0	14.9	26.3	48.8	71.3	62.2	40.4	23.5	16.7	11.9	30.5	1983
1984	11.9	12.5	10.7	17.3	28.0	54.6	72.8	50.0	29.2	23.0	23.6	28.2	30.2	1984
1985	27.2	21.9	17.3	21.9	45.2	76.2	107	130	95.3	78.6	62.1	47.7	61.2	1985
1986	33.8	22.6	18.3	33.4	86.7	125	65.7	35.8	---	---	---	---	---	1986
1987	25.5	20.7	17.3	26.9	61.6	69.7	42.4	30.4	23.0	13.9	10.7	7.76	29.2	1987
1988	5.74	4.54	4.44	7.76	14.2	23.9	32.6	19.8	12.9	24.4	9.74	9.38	13.2	1988
1989	10.6	11.4	10.7	10.1	14.2	25.3	52.3	51.5	36.0	25.7	20.5	16.7	24.0	1989
1990	14.8	13.7	13.4	29.5	72.1	130	94.1	49.2	28.2	17.1	12.6	10.8	40.5	1990
MEAN	23.1	18.2	13.8	16.9	37.8	76.0	76.0	54.5	42.3	38.9	33.2	27.8	38.3	MEAN

LOCATION - LAT 52 12 10 N
LONG 096 06 10 W NATURAL FLOW

BERENS RIVER AT OUTLET OF LONG LAKE - STATION NO. 05RD007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	36.2 ON AUG 11	4.90 ON MAR 27	623 000	1958
1959	---	248 ON JUN 09 *	9.57 ON APR 09	1 820 000	1959
1960	---	79.6 ON JUN 23	8.30 ON APR 19	847 000	1960
1961	---	35.1 ON JUN 16	4.81 ON NOV 05	442 000	1961
1962	---	68.8 ON JUN 29	4.59 ON MAY 01	830 000	1962
1963	---	127 ON JUN 25	6.97 ON DEC 09	1 130 000	1963
1964	---	81.3 ON JUN 11	5.95 ON MAR 19	792 000	1964
1965	---	118 ON JUL 01	8.83 ON MAR 20	1 160 000	1965
1966	---	152 ON JUL 05	9.54 ON APR 19	1 240 000	1966
1967	---	175 ON JUN 23	3.74 ON DEC 08 *	1 170 000	1967
1968	---	144 ON JUL 21	5.27 ON APR 07	2 030 000	1968
1969	---	206 E ON OCT 19	27.7 B ON APR 08	2 860 000	1969
1970	---	77.0E ON JUL 12	16.7 R ON APR 15	1 240 000	1970
1971	126 AT 17:00 CST ON JUN 03	126 ON JUN 05	18.6 R ON APR 06	1 590 000	1971
1972	109 AT 21:12 CST ON JUN 13	108 ON JUN 14	12.9 E ON APR 09	1 160 000	1972
1973	68.5 AT 16:17 CST ON JUL 03	68.2 ON JUL 03	14.7 R ON MAR 21	1 110 000	1973
1974	173 AT 10:10 CST ON JUN 25	170 ON JUN 23	17.6 ON APR 13	1 800 000	1974
1975	107 AT 11:18 CST ON JUN 30	106 ON JUL 01	14.9 E ON MAR 25	1 520 000	1975
1976	---	43.3 ON JUL 01	5.04E ON DEC 31	653 000	1976
1977	86.4 AT 18:20 CST ON OCT 19	86.1 ON OCT 19	4.87 ON JAN 30	880 000	1977
1978	108 AT 10:43 CST ON AUG 17	108 ON AUG 17	14.4 B ON MAR 23	1 660 000	1978
1979	199 AT 21:12 CST ON JUN 14 *	198 ON JUN 11	15.9 B ON MAR 21	1 660 000	1979
1980	47.5 AT 12:17 CST ON JUL 06	46.9 ON JUL 06	16.4 B ON APR 05	873 000	1980
1981	55.6 AT 11:48 CST ON JUL 06	50.4 ON JUL 04	10.7 B ON MAR 25	833 000	1981
1982	152 AT 19:21 CST ON JUN 25	151 ON JUN 24	16.8 B ON APR 12	1 560 000	1982
1983	91.0 AT 16:12 CST ON JUN 28	90.8 ON JUL 01	10.8 ON DEC 22	962 000	1983
1984	76.2 AT 17:41 CST ON JUL 04	76.1 ON JUL 05	9.60B ON MAR 26	957 000	1984
1985	141 AT 17:52 CST ON AUG 05	140 ON AUG 05	14.3 B ON APR 11	1 930 000	1985
1986	137 AT 18:36 CST ON JUN 12	137 ON JUN 08	---	---	1986
1987	---	76.5E ON MAY 29	7.08B ON DEC 31	920 000	1987
1988	---	36.5E ON JUL 13	4.04B ON MAR 14	418 000	1988
1989	56.1 AT 06:26 CST ON AUG 26	55.9 ON AUG 26	9.31 ON APR 19	758 000	1989
1990	139 AT 19:58 CST ON JUN 16	138 ON JUN 13	9.64B ON DEC 31	1 280 000	1990
				1 210 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1989

BIG GRASS RIVER ANGLE DITCH NEAR GLENELLA - STATION NO. 05LL026

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	7.79	6.62	0.696	0.041	0	0	0	---	---	1.88	1974
1975	---	---	0	1.41	1.41	0.762	0.058	2.19	13.3	3.53	---	---	2.80	1975
1976	---	---	0.113	20.8	1.60	0.514	0.146	0	0	0	---	---	2.84	1976
1977	---	---	0.002	0.208	0.222	0.052	0.069	0	0.220	0.117	---	---	0.111	1977
1978	---	---	0	1.46	0.680	0.137	0.018	0	0.031	0.040	---	---	0.293	1978
1979	---	---	0	7.59	10.1	1.07	0.073	0.001	0	0	---	---	2.35	1979
1980	---	---	0	0.580	0.049	0	0	1.26	0.850	0.316	---	---	0.381	1980
1981	---	---	0.293	0.279	0.295	0.354	0.101	0.047	0.005	0.093	---	---	0.183	1981
1982	---	---	0.008	3.16	0.956	0.229	1.26	0.134	0	0.104	---	---	0.727	1982
1983	---	---	0.001	5.61	2.11	0.589	0.204	0	0	0	---	---	1.05	1983
1984	---	---	0.062	0.387	0.492	0.763	0.108	0	0	0.139	---	---	0.242	1984
1985	---	---	0.037	2.69	0.363	0.283	0.172	0.361	0.211	0.308	---	---	0.547	1985
1986	---	---	0.456	3.72	10.7	0.393	0.352	0.107	0.021	0.128	---	---	2.00	1986
1987	---	---	0.005	4.03	0.213	0.066	0.012	0.001	0	0	---	---	0.530	1987
1988	---	---	0.001	0.715	0.423	0.003	0	0	0	0	---	---	0.142	1988
1989	---	---	0	0.033	0.002	0.173	0.005	0	0	0	---	---	0.026	1989
1990	---	---	0	1.33	1.62	0.295	0.023	0	0	0	---	---	0.407	1990
MEAN	---	---	0.058	3.63	2.23	0.375	0.155	0.241	0.861	0.281	---	---	0.971	MEAN

LOCATION - LAT 50 33 37 N LONG 099 09 23 W DRAINAGE AREA, 480 km² NATURAL FLOW

REMARKS - PUBLISHED AS GLENELLA DRAIN PRIOR TO 1986. PUBLISHED AS "ANGLE DRAIN NEAR GLENELLA" IN 1987

BIG GRASS RIVER ANGLE DITCH NEAR GLENELLA - STATION NO. 05LL026

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	31.7 ON APR 21	0B ON MAR 01 *	39 800	1974
1975	45.9 AT 16:25 CST ON SEP 22 *	43.9 ON SEP 22	0B ON MAR 01	59 300	1975
1976	---	51.5 ON APR 09 *	0 ON JUL 31	60 100	1976
1977	---	1.97 ON SEP 26	0B ON MAR 01	2 340	1977
1978	---	4.13 ON APR 25	0B ON MAR 01	6 200	1978
1979	---	33.7 B ON APR 26	0B ON MAR 01	49 600	1979
1980	---	9.76 ON AUG 21	0B ON MAR 01	8 060	1980
1981	0.867 AT 00:00 CST ON APR 02	0.819B ON MAR 31	0B ON MAR 01	3 880	1981
1982	---	8.62 B ON APR 16	0B ON MAR 01	15 400	1982
1983	12.4 B AT 18:40 CST ON APR 10	11.1 ON APR 21	0B ON MAR 01	22 300	1983
1984	6.42 AT 18:21 CST ON JUN 23	4.82 ON JUN 24	0B ON MAR 01	5 130	1984
1985	6.06 B AT 19:53 CST ON APR 02	5.12 ON APR 10	0B ON MAR 01	11 600	1985
1986	31.2 AT 14:52 CST ON MAY 06	30.7 ON MAY 06	0B ON MAR 01	42 300	1986
1987	12.0 AT 05:31 CST ON APR 08	11.7 ON APR 08	0B ON MAR 01	11 200	1987
1988	3.77 B AT 16:52 CST ON APR 05	3.06 B ON APR 04	0B ON MAR 01	3 000	1988
1989	1.87 AT 07:14 CST ON JUN 14	1.63 ON JUN 14	0B ON MAR 01	555	1989
1990	11.2 AT 03:21 CST ON MAY 17	9.43 ON MAY 17	0B ON MAR 01	8 610	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		20 600	MEAN

BIG GRASS RIVER NEAR GLENELLA - STATION NO. 05LL015

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	4.22	3.52	1.85	0.480	0.267	2.69	0.712	---	---	1.70	1965
1966	---	---	0.780	8.60	5.69	1.22	0.410	0.499	0.130	0.054	---	---	2.16	1966
1967	---	---	0.002	10.0	5.03	0.497	0.412	0.041	0	0	---	---	1.98	1967
1968	---	---	0.459	2.72	3.54	0.465	0.334	1.33	0.740	0.318	---	---	1.14	1968
1969	---	---	0	21.1	3.29	2.51	5.65	0.540	0.206	0.227	---	---	4.14	1969
1970	---	---	0	12.1	24.3	2.08	1.25	0.052	0.001	0.210	---	---	5.00	1970
1971	---	---	0.001	4.88	1.09	8.35	6.17	0.165	0.049	1.01	---	---	2.69	1971
1972	---	---	1.24	14.1	3.73	0.499	0.039	0	0	0	---	---	2.42	1972
1973	---	---	0.336	0.351	0.384	0.593	0.013	0	0.021	0.002	---	---	0.211	1973
1974	---	---	0	15.6	14.3	1.81	0.106	0	0	0	---	---	3.98	1974
1975	---	---	0	2.73	3.21	1.68	0.326	3.65	23.1	5.12	---	---	4.93	1975
1976	---	---	0.168	51.5	2.48	1.04	0.227	0	0	0	---	---	6.79	1976
1977	---	---	0	0.271	0.373	0.144	0.141	0	0.248	0.137	---	---	0.164	1977
1978	---	---	0	3.02	1.44	0.400	0.048	0	0.014	0.013	---	---	0.611	1978
1979	---	---	0	20.8	22.0	2.40	0.225	0.013	0.005	0.001	---	---	5.62	1979
1980	---	---	0	1.14	0.098	0.002	0	2.64	1.82	0.729	---	---	0.801	1980
1981	---	---	0.621	0.744	0.486	0.664	0.225	0.094	0.003	0.152	---	---	0.373	1981
1982	---	---	0.039	7.74	1.63	0.412	0.961	0.187	0.005	0.185	---	---	1.35	1982
1983	---	---	0.003	12.2	2.87	1.07	0.397	0.006	0	0	---	---	2.04	1983
1984	---	---	0.109	0.370	0.577	1.23	0.267	0	0	0.190	---	---	0.340	1984
1985	---	---	0.707	5.57	0.803	0.646	0.358	0.646	0.437	0.588	---	---	1.21	1985
1986	---	---	1.61	8.28	23.4	0.969	1.25	0.358	0.125	0.690	---	---	4.60	1986
1987	---	---	0.237	9.21	0.578	0.138	0.031	0.012	0	0	---	---	1.22	1987
1988	---	---	0.004	1.34	0.843	0.025	0	0	0	0	---	---	0.275	1988
1989	---	---	0	0.105	0.009	0.331	0.012	0	0	0	---	---	0.056	1989
1990	---	---	0.112	3.50	3.25	1.59	0.139	0	0	0	---	---	1.07	1990
MEAN	---	---	0.247	8.54	4.92	1.25	0.749	0.404	1.14	0.398	---	---	2.19	MEAN

LOCATION - LAT 50 30 22 N LONG 098 58 15 W DRAINAGE AREA, 1 070 km² NATURAL FLOW

BIG GRASS RIVER NEAR GLENELLA - STATION NO. 05LL015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	15.0 ON APR 16	0B ON MAR 01 *	36 000	1965
1966	---	26.9 ON APR 03	0B ON MAR 01	45 700	1966
1967	---	41.9 ON APR 17	0B ON MAR 01	41 900	1967
1968	---	7.70 ON MAY 16	0B ON MAR 01	24 000	1968
1969	---	83.5 ON APR 14	0B ON MAR 01	87 600	1969
1970	---	106 ON APR 30	0B ON MAR 01	106 000	1970
1971	---	38.2 ON JUL 02	0 ON AUG 17	57 000	1971
1972	---	26.6 ON APR 15	0 ON JUL 09	51 300	1972
1973	3.94 AT 14:42 CST ON JUN 20	3.57 ON JUN 20	0 ON JUL 09	4 470	1973
1974	69.7 B AT 17:45 CST ON APR 20	63.1 ON APR 21	0B ON MAR 01	83 800	1974
1975	80.7 AT 17:33 CST ON SEP 23	78.4 ON SEP 23	0B ON MAR 01	104 000	1975
1976	112 AT 08:19 CST ON APR 10 *	111 ON APR 10 *	0 ON AUG 04	144 000	1976
1977	2.44 AT 00:57 CST ON SEP 27	2.30 ON SEP 27	0B ON MAR 01	3 460	1977
1978	9.00 AT 17:00 CST ON APR 25	8.92 ON APR 25	0B ON MAR 01	12 900	1978
1979	98.8 AT 14:09 CST ON APR 26	97.2 ON APR 26	0B ON MAR 01	119 000	1979
1980	19.5 AT 10:36 CST ON AUG 22	19.0 ON AUG 22	0B ON MAR 01	17 000	1980
1981	---	1.32B ON APR 04	0 ON SEP 11	7 900	1981
1982	26.0 AT 00:03 CST ON APR 16	25.5 ON APR 16	0B ON MAR 01	28 600	1982
1983	---	23.8 B ON APR 12	0B ON MAR 01	43 200	1983
1984	9.01 AT 10:37 CST ON JUN 24	8.75 ON JUN 24	0B ON MAR 01	7 200	1984
1985	12.2 AT 08:14 CST ON APR 07	11.3 ON APR 07	0B ON MAR 01	25 500	1985
1986	70.1 AT 01:10 CST ON MAY 09	69.2 ON MAY 09	0 ON SEP 14	97 400	1986
1987	29.7 AT 00:06 CST ON APR 08	28.9 ON APR 08	0 ON JUN 26	26 500	1987
1988	9.00 AT 18:08 CST ON APR 05	7.89B ON APR 05	0B ON MAR 01	5 820	1988
1989	2.51 AT 19:19 CST ON JUN 14	1.60 ON JUN 20	0B ON MAR 01	1 190	1989
1990	20.7 AT 02:27 CST ON JUN 02	16.0 ON JUN 02	0B ON MAR 01	22 600	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		46 300	MEAN

BIRCH RIVER AT BIRCH RIVER - STATION NO. 05LE003

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	---	6.43	4.08	1.36	1.02	1.59	0.697	---	---	---	1954
1955	---	---	---	2.10	2.37	0.605	0.336	0.334	0.273	0.377	---	---	---	1955
1956	---	---	0.255	0.340	3.89	1.57	1.63	0.259	0.206	0.239	---	---	1.05	1956
1957	---	---	0.129	1.04	3.07	0.680	0.363	0.377	0.640	0.207	---	---	0.814	1957
1958	---	---	0.156	0.839	0.868	0.519	2.55	0.184	0.203	0.279	---	---	0.701	1958
1959	---	---	0.028	0.899	1.19	1.01	0.557	0.180	0.573	0.498	---	---	0.615	1959
1960	---	---	0.231	0.856	3.19	1.72	0.614	0.871	0.210	0.156	---	---	0.981	1960
1961	---	---	0.028	0.043	0.305	0.178	0.149	0.125	0.146	0.183	---	---	0.144	1961
1962	---	---	0	0.180	0.627	0.263	0.227	0.219	0.420	0.311	---	---	0.279	1962
1963	---	---	0	0.294	1.97	2.10	0.627	0.245	0.324	0.357	---	---	0.730	1963
1964	---	---	---	0.488	1.27	0.311	0.565	0.778	0.474	0.464	---	---	---	1964
1965	---	---	0	0.796	3.50	4.23	1.11	0.537	1.89	0.832	---	---	1.60	1965
1966	---	---	0.170	0.374	3.34	1.99	1.79	1.80	2.01	---	---	---	---	1966
1967	---	---	0.234	0.238	3.56	1.26	0.156	0.126	0.099	0.388	---	---	1.01	1967
1968	---	---	0.208	0.409	0.868	1.94	2.71	2.69	0.814	0.561	---	---	1.28	1968
1969	---	---	0.249	2.09	0.912	0.682	0.945	0.490	0.380	2.69	---	---	1.06	1969
1970	---	---	0.090	0.419	3.68	1.80	1.53	0.339	0.248	1.21	---	---	1.17	1970
1971	---	---	0.190	1.61	1.16	1.93	0.618	0.358	0.214	0.472	---	---	0.814	1971
1972	---	---	0.215	0.927	4.56	0.715	0.890	0.260	0.253	0.262	---	---	1.01	1972
MEAN	---	---	0.136	0.775	2.57	1.45	0.979	0.591	0.578	0.566	---	---	0.884	MEAN

LOCATION - LAT 52 22 54 N DRAINAGE AREA, 131 km^2
LONG 101 06 02 W NATURAL FLOW

BIRCH RIVER AT BIRCH RIVER - STATION NO. 05LE003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	---	---	---	1954
1955	---	5.41 ON MAY 03	---	---	1955
1956	---	10.1 ON MAY 18	0.142 ON AUG 19	22 300	1956
1957	---	8.16 ON MAY 01	0.113B ON MAR 01	17 200	1957
1958	---	15.1 ON JUL 06	0.113 ON AUG 15	14 800	1958
1959	---	4.81 ON APR 28	0.028B ON MAR 01	13 000	1959
1960	---	6.06 ON MAY 24	0.156BE ON SEP 05	20 800	1960
1961	---	0.368 ON MAY 06	0.028B ON MAR 01	3 040	1961
1962	---	2.23 ON MAY 01	0 B ON MAR 01 *	5 910	1962
1963	---	4.64 ON JUN 15	0 B ON MAR 01	15 500	1963
1964	---	3.48 ON MAY 11	---	---	1964
1965	---	10.1 ON JUN 03	0 B ON MAR 01	33 900	1965
1966	---	10.5 ON AUG 30	---	---	1966
1967	---	15.4 ON MAY 26	0.011 ON JUL 11	21 500	1967
1968	---	20.2 ON JUL 30 *	0.170B ON MAR 16	27 000	1968
1969	---	6.74 ON OCT 04	0.227 ON SEP 19	22 300	1969
1970	---	8.44 ON MAY 07	0.008B ON MAR 01	24 700	1970
1971	---	5.69 ON JUN 10	0.176 ON SEP 25	17 200	1971
1972	---	10.9 ON MAY 02	0.176 ON OCT 31	21 500	1972
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1989		18 700	MEAN

BIRCH RIVER NEAR BIRCH RIVER - STATION NO. 05LE010

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	0.231	0.199	1.99	4.44	0.737	0.202	0.490	0.543	---	---	1.10	1973
1974	---	---	0.161	1.40	5.44	1.75	0.856	0.870	1.27	0.712	---	---	1.56	1974
1975	---	---	0.238	0.972	3.87	2.42	0.819	0.435	0.704	0.767	---	---	1.28	1975
1976	---	---	0.219	1.27	0.598	1.75	0.710	0.421	0.224	0.276	---	---	0.684	1976
1977	---	---	0.209	0.892	0.508	0.285	---	1.06	2.52	1.06	---	---	---	1977
1978	---	---	0.183	0.822	1.37	0.728	0.671	0.189	0.684	0.577	---	---	0.652	1978
1979	---	---	0.183	0.654	6.41	2.92	0.380	0.123	0.218	0.415	---	---	1.41	1979
1980	---	---	0.072	0.800	0.337	0.322	0.377	2.46	2.00	0.912	---	---	0.908	1980
1981	---	---	0.230	0.851	1.10	0.988	1.00	2.27	0.600	2.15	---	---	1.15	1981
1982	---	---	0.098	0.776	1.21	1.08	2.19	0.475	0.311	0.777	---	---	0.866	1982
1983	---	---	0.217	3.55	4.42	3.16	2.15	0.339	1.04	0.765	---	---	1.95	1983
1984	---	---	0.291	3.97	4.74	3.33	0.353	0.212	0.502	1.64	---	---	1.87	1984
1985	---	---	0.424	3.76	1.65	2.06	0.851	1.99	0.862	0.946	---	---	1.56	1985
1986	---	---	0.197	2.61	2.47	1.41	0.519	0.823	0.771	0.813	---	---	1.17	1986
1987	---	---	0.214	3.47	0.965	0.941	2.03	0.753	0.619	1.09	---	---	1.26	1987
1988	---	---	0.222	4.30	6.90	0.378	0.131	0.181	0.203	0.300	---	---	1.58	1988
1989	---	---	0.104	0.678	0.679	0.446	0.221	0.607	1.39	0.498	---	---	0.575	1989
1990	---	---	0.267	3.52	4.34	1.53	1.55	0.177	0.168	0.165	---	---	1.46	1990
MEAN	---	---	0.209	1.92	2.72	1.65	0.914	0.755	0.810	0.801	---	---	1.24	MEAN

LOCATION - LAT 52 22 25 N DRAINAGE AREA, 136 km²
LONG 101 05 00 W NATURAL FLOW

BIRCH RIVER NEAR BIRCH RIVER - STATION NO. 05LE010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	10.6 AT 02:39 CST ON JUN 04	10.2 ON JUN 04	0.099B ON APR 18	23 200	1973
1974	12.8 AT 04:34 CST ON MAY 22	11.8 ON MAY 22	0.142 ON AUG 11	33 000	1974
1975	8.47 AT 01:18 CST ON MAY 08	7.90 ON MAY 08	0.153 ON JUL 30	27 000	1975
1976	5.04 AT 17:20 CST ON JUN 26	4.90 ON JUN 26	0.133 ON AUG 08	14 500	1976
1977	5.49 AT 10:02 CST ON SEP 25	4.76 ON SEP 26	---	---	1977
1978	3.37 AT 19:14 CST ON APR 29	2.73 ON MAY 02	0.108 ON AUG 29	13 800	1978
1979	22.8 AT 03:15 CST ON MAY 26	21.0 ON MAY 26	0 ON SEP 17 *	29 900	1979
1980	11.1 AT 09:12 CST ON SEP 04	7.33 ON SEP 04	0.056B ON MAR 01	19 200	1980
1981	8.83 AT 22:35 CST ON AUG 04	7.63 ON AUG 04	0.053 ON SEP 10	24 400	1981
1982	15.9 AT 21:40 CST ON JUL 17	11.5 ON JUL 18	0 ON JUL 01	18 300	1982
1983	---	19.2 B ON APR 25	0.135 ON AUG 07	41 200	1983
1984	10.8 AT 18:40 CST ON JUN 07	8.96 ON MAY 19	0.028 ON AUG 31	39 600	1984
1985	16.7 AT 19:15 CST ON APR 21	15.2 ON APR 21	0.340 ON AUG 07	33 000	1985
1986	5.09 AT 16:16 CST ON MAY 14	4.15 ON SEP 28	0.146B ON MAR 03	24 800	1986
1987	10.8 AT 20:00 CST ON APR 09	8.98A ON APR 09	0.201B ON MAR 01	26 600	1987
1988	34.6 AT 15:00 CST ON APR 30 *	32.0 A ON APR 30 *	0.021 ON JUL 29	33 400	1988
1989	5.38 AT 21:35 CST ON AUG 28	4.31 ON AUG 30	0.040 ON AUG 10	12 200	1989
1990	18.2 AT 22:32 CST ON APR 23	17.4 ON APR 24	0.124 ON OCT 08	30 900	1990
				26 200	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BIRD RIVER AT OUTLET OF BIRD LAKE - STATION NO. 05PJ001

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	26.1	17.8	5.43	2.74	2.07	1.54	1.98	1.75	---	1960
1961	1.87	1.68	---	---	9.15	5.91	2.63	1.47	0.638	0.397	1.13	1.59	---	1961
1962	1.92	1.84	1.52	3.13	14.0	17.6	15.2	11.4	14.3	7.07	4.22	6.46	9.04	1962
1963	4.11	4.33	---	11.2	17.2	19.7	15.4	5.83	5.29	4.55	1.96	1.79	---	1963
1964	1.33	1.83	2.28	6.44	26.4	11.7	3.95	2.79	11.0	10.0	3.43	3.11	11.7	1964
1965	3.62	2.97	1.90	8.06	28.4	14.9	8.34	3.81	2.16	2.67	4.01	4.57	13.3	1965
1966	4.20	3.87	3.96	9.00	20.2	16.7	6.98	2.71	2.92	2.14	2.45	2.96	12.5	1966
1967	3.40	3.54	3.08	9.96	22.5	11.1	4.97	2.69	0.813	0.213	0.172	0.208	11.6	1967
1968	0.450	0.605	0.685	2.62	4.61	10.4	9.13	6.11	8.86	8.49	8.74	6.35	4.79	1968
1969	4.81	4.79	3.78	8.19	9.99	6.77	7.36	5.19	4.43	9.62	7.81	5.41	7.18	1969
1970	4.32	3.80	3.40	4.62	19.3	21.6	9.43	5.26	4.47	6.58	10.2	8.46	12.2	1970
1971	5.74	4.24	3.28	9.40	16.8	8.12	4.45	1.89	1.66	1.93	4.35	4.78	9.40	1971
1972	3.98	3.36	3.03	5.60	12.6	7.71	3.92	2.80	2.38	3.04	4.33	4.51	7.24	1972
1973	3.73	3.01	2.68	6.42	8.39	7.30	7.13	7.30	11.1	13.6	11.8	8.21	6.19	1973
1974	5.29	4.67	3.93	10.2	47.5	29.6	8.11	4.22	11.2	7.52	4.66	3.72	22.9	1974
1975	3.06	3.04	2.89	4.74	13.2	10.1	6.31	2.97	2.05	1.61	1.10	0.976	7.74	1975
1976	1.28	1.57	1.86	6.94	11.5	10.9	7.49	2.17	0.617	0.140	0.041	0.101	7.78	1976
1977	0.106	0.199	0.318	0.594	1.59	5.82	8.71	5.52	10.2	9.71	5.73	5.44	2.06	1977
1978	4.48	3.51	2.64	5.73	18.6	14.7	12.3	6.94	3.72	2.00	1.15	0.917	10.4	1978
1979	---	---	1.14	5.18	22.2	16.9	7.05	3.60	1.73	0.876	---	---	11.3	1979
1980	---	---	2.10	5.62	8.33	4.22	1.78	0.923	0.958	2.71	---	---	5.07	1980
1981	---	---	1.83	2.09	2.27	4.10	---	---	---	---	---	---	2.56	1981
1982	---	---	1.77	4.68	10.6	11.3	---	---	---	---	---	---	7.09	1982
1983	---	---	1.76	3.03	5.67	6.58	---	---	---	---	---	---	4.25	1983
1984	---	---	1.01	4.41	8.29	12.9	---	---	---	---	---	---	6.62	1984
1985	---	---	2.55	5.09	12.2	7.60	---	---	---	---	---	---	6.86	1985
1986	---	---	2.72	12.7	24.8	11.4	---	---	---	---	---	---	12.9	1986
1987	---	---	2.73	9.44	7.29	3.68	---	---	---	---	---	---	5.78	1987
1988	---	---	0.452	2.19	3.35	3.33	---	---	---	---	---	---	2.32	1988
1989	---	---	1.95	3.95	17.8	18.6	---	---	---	---	---	---	10.6	1989
1990	---	---	0.907	2.24	8.25	11.6	---	---	---	---	---	---	5.72	1990
MEAN	3.21	2.94	2.22	5.98	14.8	11.5	7.15	4.21	4.88	4.54	4.17	3.75	8.47	MEAN

LOCATION - LAT 50 27 46 N DRAINAGE AREA, 1 040 km²
LONG 095 24 50 W NATURAL FLOW

REMARKS - AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

BIRD RIVER AT OUTLET OF BIRD LAKE - STATION NO. 05PJ001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1960	---	30.9 E ON JUN 02	---	---	1960
1961	---	---	---	---	1961
1962	---	23.8 ON JUN 01	1.44 E ON MAR 01	95 200	1962
1963	---	19.9 ON MAY 24	---	---	1963
1964	---	33.7 ON MAY 12	1.98 E ON MAR 01	124 000	1964
1965	---	33.4 E ON MAY 07	1.33 E ON MAR 01	141 000	1965
1966	---	26.3 ON MAY 28	3.77 E ON MAR 09	131 000	1966
1967	---	24.2 ON MAY 12	2.72 E ON APR 03	122 000	1967
1968	13.0 AT 15:10 CST ON JUN 20	12.5 ON JUN 19	0.481E ON MAR 12	50 500	1968
1969	14.4 AT 02:46 CST ON APR 26	13.9 ON APR 26	3.17 ON APR 07	75 700	1969
1970	---	29.7 E ON JUN 03	3.11 E ON APR 01	129 000	1970
1971	20.5 AT 07:00 CST ON MAY 07	20.1 ON MAY 06	3.09 ON MAR 25	99 100	1971
1972	13.4 AT 01:42 CST ON MAY 12	13.2 ON MAY 08	2.83 ON APR 09	76 300	1972
1973	16.5 AT 02:07 CST ON OCT 19	9.71 ON APR 27	2.40 ON MAR 21	65 200	1973
1974	---	65.7 A ON MAY 25 *	3.37 ON APR 10	241 000	1974
1975	14.3 AT 04:43 CST ON MAY 19	14.3 ON MAY 19	2.73 ON APR 12	81 600	1975
1976	15.4 AT 17:00 CST ON JUN 18	14.8 ON JUN 19	1.70 ON MAR 01	82 000	1976
1977	12.6 AT 09:09 CST ON SEP 16	10.7 ON JUN 24	0.275 ON MAR 01 *	21 700	1977
1978	20.3 AT 02:27 CST ON MAY 19	19.9 ON MAY 15	2.25 ON MAR 30	110 000	1978
1979	24.5 AT 08:14 CST ON MAY 19	24.4 ON MAY 19	0.972 ON MAR 11	120 000	1979
1980	11.4 AT 11:51 CST ON APR 28	11.3 ON APR 26	1.88 ON APR 04	53 400	1980
1981	---	8.74 ON JUN 30	1.75 ON MAR 23	27 000	1981
1982	12.8 AT 13:45 CST ON JUN 14	12.8 ON JUN 14	1.34 B ON MAR 21	74 700	1982
1983	6.87 AT 18:09 CST ON JUN 26	6.82 ON JUN 26	1.31 B ON MAR 01	44 800	1983
1984	17.2 AT 21:36 CST ON JUN 22	16.3 ON JUN 20	0.907B ON MAR 12	69 800	1984
1985	14.0 AT 12:11 CST ON MAY 15	13.8 ON MAY 14	2.24 B ON MAR 21	72 400	1985
1986	31.0 AT 18:38 CST ON MAY 07 *	31.0 ON MAY 07	2.45 B ON MAR 11	136 000	1986
1987	12.6 AT 15:00 CST ON APR 19	12.0 ON APR 19	2.10 ON JUN 30	60 900	1987
1988	4.61 AT 21:30 CST ON JUN 07	4.93 ON JUN 08	0.339A ON MAR 02	24 500	1988
1989	22.1 AT 19:04 CST ON JUN 01	21.5 ON MAY 31	1.88 ON MAR 27	111 000	1989
1990	13.7 AT 16:51 CST ON JUN 25	13.0 ON JUN 25	0.671 ON MAR 10	60 300	1990
				89 300	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BIRDTAIL CREEK AT BIRTLE - STATION NO. 05ME002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	6.23	1.72	0.363	0.211	0.237	0.532	0.283	0.142	---	1914
1915	0	0	0	1.28	0.720	0.959	1.37	0.142	0.685	1.42	1.28	0.566	0.704	1915
1916	0	0	0	8.22	2.82	9.78	6.34	0.849	0.626	1.21	0.920	0.343	2.50	1916
1917	0.283	0	0	5.21	6.48	2.12	1.44	0.062	0.081	0.151	0.121	0.051	1.34	1917
1924	---	---	---	---	---	---	---	---	---	2.34	---	---	---	1924
1925	---	---	---	19.3	4.92	8.15	---	---	---	---	---	---	---	1925
1926	---	---	---	5.10	2.01	1.35	1.33	0.192	0.974	---	---	---	---	1926
1928	---	---	---	---	4.93	8.62	5.43	1.41	0.558	---	---	---	---	1928
MEAN	0.094	0	0	7.82	4.02	4.53	2.71	0.478	0.527	1.13	0.653	0.276	1.51	MEAN

LOCATION - LAT 50 25 15 N DRAINAGE AREA, 1 320 km²
LONG 101 02 40 W NATURAL FLOW

BIRDTAIL CREEK AT BIRTLE - STATION NO. 05ME002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	2.46 ON JUL 20	0E ON JAN 01 *	22 200	1915
1916	---	10.5 ON APR 17 *	0E ON JAN 01	79 100	1916
1917	---	15.6 ON APR 27	0E ON FEB 01	42 200	1917
1924	---	---	---	---	1924
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1928	---	---	---	---	1928
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		47 800	MEAN

BIRDTAIL CREEK NEAR BIRTLE - STATION NO. 05ME003

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1953	---	---	---	---	---	---	---	2.35	1.04	0.974	1.62	---	---	1953
1954	---	---	0	6.46	6.31	9.30	8.09	1.56	3.50	4.76	1.86	---	4.98	1954
1955	---	---	0.060	16.9	13.5	7.93	3.19	0.676	0.442	0.599	---	---	5.38	1955
1956	---	---	0	3.78	17.3	8.02	8.07	1.56	1.47	1.29	---	---	5.10	1956
1957	---	---	1.11	6.70	6.16	1.77	0.555	0.646	0.366	0.407	---	---	2.21	1957
1958	---	---	0.223	2.94	0.635	0.281	0.300	0.010	0	0.054	---	---	0.549	1958
1959	---	---	0.099	1.22	1.03	1.10	1.36	0.174	0.409	1.63	---	---	0.878	1959
1960	---	---	0.011	9.49	5.48	4.49	0.231	0.018	0	0	---	---	2.44	1960
1961	---	---	0.003	0.899	1.25	0.082	0	0	0	0	---	---	0.279	1961
1962	---	---	0	1.67	0.574	0.323	0.096	0.018	0.009	0.015	---	---	0.334	1962
1963	---	---	0.668	3.02	0.604	1.42	0.177	0.249	0.197	0.107	---	---	0.667	1963
1964	---	---	0	3.90	3.11	0.577	0.052	0.032	0.001	0.003	---	---	0.953	1964
1965	---	---	0	3.98	3.52	1.91	0.351	0.032	1.06	0.770	---	---	1.44	1965
1966	---	---	0.344	6.68	6.60	1.53	3.10	0.594	0.111	0.266	---	---	2.40	1966
1967	---	---	0.090	4.03	7.84	1.03	0.266	0.097	0.003	0.077	---	---	1.68	1967
1968	---	---	1.32	2.83	0.635	0.221	0.270	0.435	0.199	0.184	---	---	0.759	1968
1969	---	---	0.098	8.86	1.22	0.602	3.19	0.694	0.136	0.495	---	---	1.90	1969
1970	---	---	0.199	4.99	16.8	2.54	1.65	0.929	0.428	0.807	---	---	3.55	1970
1971	---	---	0	9.53	1.94	6.09	2.98	1.22	0.327	1.66	---	---	2.94	1971
1972	---	---	0.306	14.6	6.16	0.650	0.087	0.142	0.058	0.084	---	---	2.74	1972
1973	---	---	0.467	1.06	0.718	1.06	0.203	0.027	0.519	1.31	---	---	0.669	1973
1974	---	---	0.202	14.2	18.5	4.06	0.359	0.130	0.214	0.354	---	---	4.73	1974
1975	---	---	0.191	5.18	8.15	2.68	0.661	1.08	6.87	4.27	---	---	3.62	1975
1976	---	---	0.503	20.5	2.50	6.07	2.21	0.443	0.344	0.855	---	---	4.38	1976
1977	---	---	0.362	1.90	2.06	0.677	1.43	0.510	1.08	1.36	---	---	1.17	1977
1978	---	---	0.297	7.37	3.31	1.14	0.424	0.075	0.625	0.838	---	---	1.74	1978
1979	---	---	0.131	12.1	17.5	5.49	0.485	0.071	0.007	0.061	---	---	4.46	1979
1980	---	---	0.006	3.19	0.572	0.022	0.335	0.831	0.301	0.658	---	---	0.734	1980
1981	---	---	1.18	1.72	0.957	1.53	0.149	0.038	0.059	0.022	---	---	0.703	1981
1982	---	---	0.013	3.71	1.59	0.269	0.019	0.022	0.001	0.704	---	---	0.785	1982
1983	---	---	0.002	7.24	6.08	2.08	1.79	0.190	0.001	0.002	---	---	2.16	1983
1984	---	---	0.528	1.67	1.64	1.27	0.165	0	0	0.183	---	---	0.679	1984
1985	---	---	0.052	6.73	1.45	1.64	0.185	1.64	0.765	1.83	---	---	1.77	1985
1986	---	---	1.66	15.2	11.0	2.10	1.21	0.298	0.263	0.472	---	---	4.01	1986
1987	---	---	0.716	9.37	1.09	0.260	0.124	0.104	0.033	0.159	---	---	1.46	1987
1988	---	---	0.035	4.52	6.64	0.483	0.046	0.001	0	0.001	---	---	1.46	1988
1989	---	---	0	1.50	0.244	1.20	0.086	0.002	0.001	0.001	---	---	0.373	1989
1990	---	---	0.063	5.15	3.31	1.54	2.17	0.095	0.026	0.054	---	---	1.54	1990
MEAN	---	---	0.296	6.32	5.13	2.25	1.25	0.448	0.549	0.719	1.74	---	2.10	MEAN

LOCATION - LAT 50 31 50 N DRAINAGE AREA, 1 120 km²
LONG 100 57 00 W NATURAL FLOW

BIRDTAIL CREEK NEAR BIRTLE - STATION NO. 05ME003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1953	---	---	---	---	1953
1954	---	15.9 ON JUL 07	0 B ON MAR 01 *	105 000	1954
1955	---	30.3 ON APR 11	0 B ON MAR 01	114 000	1955
1956	---	30.9 ON MAY 13	0 B ON MAR 01	110 000	1956
1957	---	22.6 ON APR 27	0.142B ON MAR 01	46 700	1957
1958	---	8.16B ON APR 04	0 B ON MAR 01	11 600	1958
1959	---	7.65 ON JUL 04	0 B ON MAR 01	18 600	1959
1960	---	18.5 B ON APR 12	0 ON AUG 18	51 600	1960
1961	---	4.42 ON APR 28	0 B ON MAR 01	5 910	1961
1962	---	9.34 ON APR 20	0 ON MAR 01	7 080	1962
1963	---	4.30B ON APR 06	0 B ON MAR 01	14 100	1963
1964	---	9.17B ON APR 18	0 B ON MAR 01	20 200	1964
1965	---	11.5 B ON APR 15	0 B ON MAR 01	30 500	1965
1966	---	11.4 B ON APR 04	0.017 ON SEP 26	50 800	1966
1967	---	13.6 ON MAY 12	0 ON AUG 31	35 500	1967
1968	---	7.82B ON MAR 30	0.074 ON SEP 30	16 100	1968
1969	---	21.0 ON APR 17	0 ON SEP 20	40 100	1969
1970	---	43.9 ON MAY 05	0.037 ON SEP 10	75 100	1970
1971	---	21.4 B ON APR 13	0 B ON MAR 01	62 200	1971
1972	---	41.1 ON APR 23	0.022 ON JUL 20	57 900	1972
1973	---	3.09 ON OCT 07	0.001 ON AUG 16	14 200	1973
1974	48.4 AT 00:03 CST ON APR 22	43.0 ON APR 22	0.068 ON AUG 13	100 000	1974
1975	29.7 AT 06:36 CST ON MAY 01	29.2 ON MAY 01	0.079 ON AUG 04	76 600	1975
1976	49.8 AT 03:16 CST ON APR 11	46.2 ON APR 11	0.130 ON SEP 16	92 600	1976
1977	4.39 AT 11:55 CST ON MAY 08	4.33 ON MAY 08	0.022 ON AUG 29	24 800	1977
1978	---	12.8 ON APR 21	0 ON AUG 12	36 900	1978
1979	50.9 B AT 20:30 CST ON APR 21 *	48.7 B ON APR 21 *	0 ON AUG 31	94 400	1979
1980	---	5.31B ON APR 14	0 ON JUN 11	15 500	1980
1981	7.66 AT 14:17 CST ON APR 01	6.70 ON APR 01	0 ON AUG 03	14 900	1981
1982	8.95B AT 17:57 CST ON APR 20	8.67B ON APR 21	0 B ON MAR 01	16 600	1982
1983	---	21.6 B ON APR 22	0 B ON MAR 01	45 800	1983
1984	3.84 AT 21:24 CST ON JUN 24	3.64 ON JUN 25	0 ON AUG 07	14 400	1984
1985	10.6 AT 02:45 CST ON APR 24	10.3 ON APR 16	0.001 ON JUL 31	37 500	1985
1986	---	25.0 B ON APR 02	0.065 ON SEP 23	84 900	1986
1987	25.6 AT 01:02 CST ON APR 08	20.4 ON APR 07	0.013 ON SEP 15	30 900	1987
1988	15.5 B AT 06:37 CST ON APR 07	13.4 B ON APR 07	0 ON AUG 07	31 000	1988
1989	5.08B AT 03:59 CST ON APR 07	4.33B ON APR 07	0 B ON MAR 01	7 900	1989
1990	12.9 AT 06:35 CST ON APR 24	12.9 ON APR 24	0.001 ON SEP 19	32 700	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		44 400	MEAN

BLACK RIVER NEAR MANIGOTAGAN - STATION NO. 05RA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.510	12.4	16.8	5.30	0.691	0.776	0.834	0.234	0.504	0.231	---	1960
1961	0.153	0.136	0.482	8.46	10.7	2.78	0.140	0.036	0.024	0.090	0.151	0.189	1.95	1961
1962	0.161	0.164	0.265	4.01	17.1	15.7	5.32	12.9	8.74	2.90	2.53	3.74	6.24	1962
1963	0.819	1.03	0.789	14.1	25.9	13.3	3.45	4.81	1.57	0.635	0.490	0.241	4.95	1963
1964	0.074	0.161	0.174	7.47	29.8	4.97	4.45	5.38	13.0	5.65	1.62	0.766	6.16	1964
1965	0.630	0.452	0.529	10.7	24.0	9.92	2.97	1.30	1.14	2.49	2.19	1.24	4.82	1965
1966	0.895	0.581	0.606	11.4	19.6	10.6	3.94	0.482	0.031	0.190	1.37	1.58	4.29	1966
1967	1.21	0.867	0.558	15.1	17.8	4.61	0.660	0.917	0.102	0.049	0.262	0.105	3.53	1967
1968	0.043	0.047	0.122	3.28	12.4	9.13	5.13	7.21	10.5	6.29	3.77	1.45	4.93	1968
1969	0.629	0.763	0.757	12.0	8.56	5.89	4.86	1.23	0.984	4.31	2.16	0.726	3.58	1969
1970	0.397	0.509	0.476	4.67	16.6	10.0	2.29	0.507	0.167	2.68	5.10	2.01	3.80	1970
1971	1.06	0.704	0.557	14.5	11.2	2.02	2.01	0.241	0.061	0.636	1.75	1.36	2.03	1971
1972	0.870	0.558	0.205	10.4	11.1	1.44	0.596	0.859	1.31	4.53	4.81	0.922	4.63	1972
1973	0.851	0.683	0.964	6.04	5.51	15.3	3.05	3.32	2.44	9.38	5.71	3.14	4.71	1973
1974	1.30	0.873	0.596	18.1	31.8	7.18	0.407	0.095	2.00	1.18	1.00	0.685	5.45	1974
1975	0.531	0.556	0.487	4.19	9.78	3.86	1.54	2.47	2.56	1.61	1.13	0.287	2.43	1975
1976	0.164	0.208	0.266	11.0	6.19	2.91	1.82	0.189	0.049	0.010	0.016	0.023	1.89	1976
1977	0.016	0.021	0.050	0.772	0.568	2.44	5.68	5.63	17.6	5.33	2.38	1.15	3.55	1977
1978	0.581	0.381	0.367	8.29	14.4	9.53	8.30	2.09	1.08	0.668	0.471	0.196	3.88	1978
1979	0.146	0.117	0.227	12.8	25.6	14.7	1.35	0.442	0.345	0.232	0.323	0.315	4.73	1979
1980	0.314	0.322	0.242	6.63	5.81	0.737	0.289	0.064	1.31	3.48	1.98	0.735	1.83	1980
1981	0.549	0.472	0.477	0.582	0.913	4.62	3.05	4.12	2.54	2.39	2.97	1.25	2.00	1981
1982	0.359	0.285	0.264	7.34	9.56	5.27	5.32	2.31	0.514	1.33	0.978	0.622	2.86	1982
1983	0.414	0.322	0.410	2.46	5.89	7.88	4.83	0.464	0.086	0.151	0.246	0.201	1.95	1983
1984	0.187	0.173	0.179	2.91	4.37	7.51	3.31	0.837	0.203	3.00	6.16	1.70	2.54	1984
1985	0.942	0.593	0.665	---	---	2.98	0.955	3.08	3.19	3.63	3.99	1.55	---	1985
1986	0.678	0.554	0.499	16.7	15.7	1.55	0.196	0.027	0.183	1.30	1.03	1.03	3.29	1986
1987	0.522	0.359	0.717	7.86	2.58	0.556	0.153	0.181	0.026	0.041	0.067	0.038	1.09	1987
1988	0.065	0.038	0.031	2.12	2.46	2.34	1.24	0.249	0.342	0.478	0.455	0.358	0.856	1988
1989	0.318	0.286	0.217	2.71	9.92	7.52	2.62	0.582	0.078	0.103	0.178	0.096	2.06	1989
1990	0.078	0.062	0.336	2.90	10.1	13.2	6.06	0.750	0.256	0.179	0.207	0.242	2.88	1990
MEAN	0.499	0.409	0.420	8.07	12.4	6.77	2.80	2.05	2.36	2.01	1.71	0.906	3.38	MEAN

LOCATION - LAT 50 51 42 N DRAINAGE AREA, 712 km^2
LONG 096 15 10 W NATURAL FLOW

BLACK RIVER NEAR MANIGOTAGAN - STATION NO. 05RA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	32.3 ON APR 23	---	---	1960
1961	---	35.3 ON APR 24	0.02OE ON SEP 16	61 500	1961
1962	---	34.8 ON AUG 30	0.156 ON JAN 01	197 000	1962
1963	---	22.9 ON APR 26	0.105 ON DEC 29	156 000	1963
1964	---	48.4 ON MAY 08	0.048 ON JAN 26	195 000	1964
1965	---	32.8 E ON APR 27	0.385E ON MAR 09	152 000	1965
1966	---	21.2 ON MAY 16	0.017 ON SEP 21	135 000	1966
1967	---	31.7 E ON APR 28	0 ON SEP 28 *	111 000	1967
1968	27.2 AT 23:00 CST ON AUG 25	25.8 ON AUG 26	0.031B ON JAN 23	156 000	1968
1969	---	24.0 ON APR 17	0.518 ON DEC 28	113 000	1969
1970	21.4 AT 13:51 CST ON JUN 02	21.1 ON JUN 02	0.042 ON SEP 07	120 000	1970
1971	42.2 AT 23:13 CST ON APR 20	40.5 ON APR 21	0 ON SEP 13	95 500	1971
1972	26.4 AT 19:20 CST ON APR 23	26.9 ON APR 23	0 ON APR 01	83 200	1972
1973	59.7 AT 14:27 CST ON JUN 16	58.3 ON JUN 16	0.600 ON MAR 08	148 000	1973
1974	68.8 AT 10:40 CST ON APR 30 *	68.0 ON APR 30 *	0.020 ON AUG 19	172 000	1974
1975	13.8 AT 17:20 CST ON MAY 06	13.6 ON MAY 06	0.181 ON AUG 02	76 500	1975
1976	19.7 AT 16:20 CST ON APR 19	19.5 ON APR 19	0.004 ON OCT 17	59 800	1976
1977	---	40.8 A ON SEP 11	0.013B ON JAN 17	112 000	1977
1978	26.0 AT 18:25 CST ON APR 26	25.8 ON APR 27	0.120 ON DEC 29	123 000	1978
1979	41.4 AT 09:13 CST ON JUN 01	41.0 ON JUN 01	0.103B ON FEB 17	149 000	1979
1980	15.6 AT 17:54 CST ON APR 21	15.6 ON APR 22	0.014 ON AUG 07	57 700	1980
1981	12.6 AT 05:27 CST ON AUG 11	12.1 ON AUG 10	0.347 ON MAR 15	63 100	1981
1982	45.1 AT 14:00 CST ON APR 16	32.6 B ON APR 16	0.172B ON MAR 07	90 200	1982
1983	13.8 AT 11:13 CST ON JUN 23	13.5 ON JUN 23	0.063 ON SEP 10	61 600	1983
1984	12.5 AT 08:47 CST ON JUN 24	12.4 ON JUN 24	0.111B ON MAR 11	80 300	1984
1985	---	---	---	---	1985
1986	27.9 AT 18:30 CST ON MAY 02	27.8 ON MAY 02	0.003 ON SEP 01	104 000	1986
1987	11.8 AT 14:34 CST ON APR 11	11.5 ON APR 11	0.010 ON SEP 29	34 200	1987
1988	4.30 AT 07:10 CST ON APR 16	4.18 ON APR 16	0.020 ON MAR 21	27 100	1988
1989	11.8 AT 20:15 CST ON MAY 02	11.7 ON MAY 04	0.036 ON OCT 02	65 000	1989
1990	19.4 AT 16:47 CST ON JUN 12	18.8 ON JUN 13	0.049B ON MAR 07	90 800	1990
				107 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BLOODVEIN RIVER ABOVE BLOODVEIN BAY - STATION NO. 05RB003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1976	16.1	15.1	14.5	23.7	32.9	43.2	33.4	16.9	8.70	4.57	3.13	2.44	17.9	1976
1977	2.27	2.90	3.32	13.5	40.4	20.4	27.6	39.1	76.6	109	59.0	34.6	33.2	1977
1978	24.1	17.1	15.2	39.5	91.7	99.4	156	118	92.0	62.9	49.6	30.2	66.7	1978
1979	21.2	17.3	16.4	88.2	196	235	79.2	45.2	51.9	36.3	30.0	26.9	70.4	1979
1980	24.9	22.0	19.3	52.7	74.1	46.3	27.5	18.7	43.1	47.2	44.5	30.6	37.5	1980
1981	21.6	16.6	14.8	26.9	27.1	54.3	59.2	48.4	66.8	56.6	55.8	26.1	39.6	1981
1982	17.0	14.7	12.2	54.2	99.8	127	88.2	69.6	44.3	39.4	30.1	19.4	51.5	1982
1983	14.7	13.3	12.9	28.6	61.4	106	122	49.4	22.7	17.1	15.0	9.93	39.7	1983
1984	6.73	6.79	6.92	38.3	60.5	70.4	75.8	43.3	22.7	37.7	58.4	44.8	39.4	1984
1985	33.5	26.2	20.0	57.1	94.9	78.0	---	---	---	59.8	56.3	33.9	---	1985
1986	25.8	19.1	18.0	117	167	92.6	46.9	32.1	16.5	24.4	18.7	17.6	49.8	1986
1987	15.5	13.0	13.6	73.3	51.1	40.0	25.0	27.8	11.9	8.44	8.71	3.77	24.3	1987
1988	3.44	3.01	3.10	34.0	72.6	39.5	21.0	9.73	6.78	7.60	8.14	7.86	18.1	1988
1989	8.77	9.83	10.5	13.5	43.4	106	96.6	70.1	46.5	28.6	22.9	15.7	39.5	1989
1990	14.0	13.8	18.7	81.6	186	159	117	65.8	27.1	15.7	9.87	6.99	59.9	1990
MEAN	16.6	14.0	13.2	49.3	84.7	87.8	69.7	46.7	38.5	37.0	31.3	20.7	42.0	MEAN

LOCATION - LAT 51 42 52 N
LONG 096 35 44 W
DRAINAGE AREA, 9 090 km^2
NATURAL FLOW

BLOODVEIN RIVER ABOVE BLOODVEIN BAY - STATION NO. 05RB003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1976	---	48.1E ON JUN 27	2.26E ON DEC 30	565 000	1976
1977	---	126 A ON OCT 06	2.21 ON JAN 28 *	1 050 000	1977
1978	195 AT 13:51 CST ON JUL 17	193 ON JUL 17	12.7 B ON MAR 21	2 100 000	1978
1979	373 AT 21:00 CST ON JUN 02 *	372 ON JUN 03 *	16.3 B ON MAR 05	2 220 000	1979
1980	101 AT 18:37 CST ON APR 24	100 ON APR 24	16.2 ON AUG 16	1 190 000	1980
1981	120 AT 08:08 CST ON SEP 08	120 ON SEP 08	13.2 B ON MAR 21	1 250 000	1981
1982	165 AT 12:05 CST ON JUN 09	164 ON JUN 09	11.1 B ON MAR 26	1 620 000	1982
1983	243 AT 14:05 CST ON JUN 26	240 ON JUN 26	7.25B ON DEC 31	1 240 000	1983
1984	93.5 AT 01:18 CST ON JUN 27	92.3 ON JUN 27	5.65B ON MAR 13	1 250 000	1984
1985	122 AT 17:00 CST ON APR 26	121 ON APR 26	18.1 B ON MAR 20	---	1985
1986	191 AT 20:01 CST ON MAY 07	191 ON MAY 08	14.6 ON SEP 16	1 570 000	1986
1987	100 AT 02:29 CST ON APR 14	100 ON APR 14	2.46B ON DEC 31	767 000	1987
1988	98.1 AT 19:24 CST ON MAY 12	97.8 ON MAY 12	2.59B ON FEB 12	573 000	1988
1989	154 AT 10:35 CST ON JUN 28	154 ON JUN 28	7.74B ON JAN 03	1 250 000	1989
1990	232 AT 07:47 CST ON APR 27	230 ON APR 27	6.39B ON DEC 25	1 890 000	1990
				1 320 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOGGY CREEK ABOVE LAKE IRWIN - STATION NO. 05LL013

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.300	0.880	0.623	0.309	0.118	0.070	0.170	0.280	---	---	0.342	1961
1962	---	---	0	1.42	1.02	0.521	0.314	0.285	0.184	0.219	---	---	0.493	1962
1963	---	---	0.083	0.382	0.318	0.659	0.506	0.266	0.215	0.234	---	---	0.332	1963
1964	---	---	0.023	0.800	0.560	0.438	0.305	0.153	0.234	0.224	---	---	0.340	1964
1965	---	---	0.241	2.26	0.644	0.450	0.297	0.258	0.471	0.323	---	---	0.613	1965
1966	---	---	0.373	1.38	0.718	0.397	0.244	0.159	0.128	0.216	---	---	0.449	1966
1967	---	---	0.159	1.31	0.808	0.350	0.253	0.158	0.073	0.270	---	---	0.421	1967
1968	---	---	0.269	0.596	0.475	0.244	0.240	0.176	0.368	0.289	---	---	0.359	1968
1969	---	---	0.215	3.30	1.08	0.572	0.898	0.704	0.464	0.559	---	---	0.968	1969
1970	---	---	0.210	3.04	4.30	1.13	0.846	0.631	0.539	0.472	---	---	1.39	1970
1971	---	---	0.275	1.18	0.919	1.75	2.26	0.650	0.225	0.569	---	---	0.978	1971
1972	---	---	0.306	2.73	1.27	0.644	0.266	0.143	0.202	0.454	---	---	0.746	1972
1973	---	---	0.404	0.432	0.384	0.351	0.246	0.328	0.338	0.402	---	---	0.360	1973
1974	---	---	0.238	3.92	2.32	0.866	0.206	0.261	0.374	0.402	---	---	1.07	1974
1975	---	---	0.382	1.34	1.47	0.703	0.427	0.681	0.712	0.505	---	---	0.775	1975
1976	---	---	0.352	4.10	0.766	0.625	0.236	0.130	0.122	0.329	---	---	0.822	1976
1977	---	---	0.445	0.497	0.695	0.553	0.805	0.305	0.548	0.358	---	---	0.526	1977
1978	---	---	0.293	1.52	0.628	0.368	0.188	0.128	0.251	0.263	---	---	0.452	1978
1979	---	---	0.353	3.67	2.73	0.392	0.101	0.018	0.095	0.353	---	---	0.959	1979
1980	---	---	0.240	0.830	0.380	0.169	0.121	0.365	0.227	0.300	---	---	0.328	1980
1981	---	---	0.480	0.394	0.330	0.259	0.130	0.272	0.196	0.367	---	---	0.304	1981
1982	---	---	0.155	1.20	0.375	0.292	0.360	0.100	0.374	0.438	---	---	0.408	1982
1983	---	---	0.350	2.12	0.557	0.466	0.298	0.102	0.254	0.331	---	---	0.555	1983
1984	---	---	0.243	0.415	0.380	0.275	0.122	0.116	0.322	0.593	---	---	0.308	1984
1985	---	---	0.251	0.845	0.392	0.461	0.058	0.107	0.708	0.357	---	---	0.394	1985
1986	---	---	0.915	1.97	0.777	0.250	0.305	0.202	0.274	0.293	---	---	0.622	1986
1987	---	---	0.438R	2.42 R	0.201R	0.106R	0.219R	0.277R	0.153R	0.154R	---	---	0.492R	1987
1988	---	---	0.283	0.436	0.374	0.149	0.188	0.040	0.070	0.152	---	---	0.212	1988
1989	---	---	0.146	0.481	0.171	0.144	0.064	0.055	0.044	0.082	---	---	0.147	1989
1990	---	---	0.377	1.07	0.294	0.180	0.062	0.070	0.056	0.053	---	---	0.268	1990
MEAN	---	---	0.294R	1.56 R	0.865R	0.469R	0.356R	0.247R	0.280R	0.328R	---	---	0.548R	MEAN

LOCATION - LAT 50 10 54 N LONG 099 23 55 W DRAINAGE AREA, 515 km² NATURAL FLOW

R - REVISED SINCE JAN 01 1989

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "WHITEMUD RIVER ABOVE NEEPAWA RESERVOIR"

BOGGY CREEK ABOVE LAKE IRWIN - STATION NO. 05LL013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	1.30 ON APR 13	0.051 ON AUG 19	7 250	1961
1962	---	4.73 ON APR 23	0 B ON MAR 01 *	10 400	1962
1963	---	1.10 ON JUN 05	0.003B ON MAR 01	7 020	1963
1964	---	1.83 ON APR 15	0.020B ON MAR 01	7 210	1964
1965	---	9.85 ON APR 16	0.207 ON JUL 10	13 000	1965
1966	---	3.37 ON APR 06	0.045 ON AUG 28	9 510	1966
1967	---	6.20 ON APR 22	0.057 ON SEP 17	8 910	1967
1968	---	1.95 ON APR 21	0.096 ON AUG 14	7 600	1968
1969	---	12.7 ON APR 16	0.190B ON MAR 28	20 500	1969
1970	---	20.1 ON APR 29 *	0.210B ON MAR 01	29 500	1970
1971	---	7.92 ON JUN 23	0.093 ON SEP 04	20 700	1971
1972	---	7.11 B ON APR 16	0.122 ON AUG 05	15 800	1972
1973	---	0.668B ON MAR 21	0.170 ON JUL 11	7 620	1973
1974	21.3 AT 12:53 CST ON APR 21 *	20.1 ON APR 21	0.147 ON JUL 22	22 600	1974
1975	3.45 B AT 09:05 CST ON APR 23	3.26 B ON APR 23	0.334 ON JUL 16	16 400	1975
1976	17.5 B AT 20:34 CST ON APR 09	16.3 B ON APR 09	0.054 ON AUG 27	17 400	1976
1977	2.47 AT 21:34 CST ON JUL 11	2.30 ON JUL 14	0.068 ON AUG 28	11 100	1977
1978	5.04 B AT 13:15 CST ON APR 15	3.31 ON APR 16	0.031 ON SEP 10	9 560	1978
1979	20.4 B AT 17:12 CST ON APR 25	18.9 B ON APR 25	0 ON AUG 07	20 300	1979
1980	---	2.27 B ON APR 07	0.003 ON AUG 01	6 940	1980
1981	0.808 AT 07:23 CST ON MAY 08	0.700B ON MAR 29	0.063 ON JUL 14	6 430	1981
1982	3.83 AT 13:30 CST ON APR 17	3.64 B ON APR 18	0.024 ON AUG 13	8 650	1982
1983	7.14 AT 03:37 CST ON APR 25	7.03 ON APR 25	0.059 ON AUG 10	11 800	1983
1984	0.879 AT 23:21 CST ON MAY 04	0.816 ON OCT 22	0.052 ON JUL 31	6 520	1984
1985	---	5.92 A ON SEP 20	0.029B ON MAR 20	8 340	1985
1986	10.4 AT 12:30 CST ON APR 04	8.38 B ON APR 04	0.171 ON JUN 10	13 200	1986
1987	9.79 AT 01:53 CST ON APR 10	9.23 R ON APR 10	0.065R ON JUN 19	10 400	1987
1988	---	0.919B ON APR 03	0.014 ON AUG 17	4 480	1988
1989	---	0.849B ON APR 05	0.039 ON SEP 18	3 120	1989
1990	3.42 B AT 15:45 CST ON APR 06	2.68 B ON APR 06	0.044 ON JUL 25	5 680	1990
				11 600	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1989

BOGGY CREEK NEAR NEEPAWA - STATION NO. 05LL011

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	---	---	0.040	0.109	0.225	---	---	---	1960
1961	---	---	0.274	0.535	0.880	0.627	0.223	0.204	0.219	0.147	---	---	0.388	1961
1962	---	---	0.170	3.09	0.987	0.485	0.240	0.184	0.225	0.196	---	---	0.715	1962
1963	---	---	0.618	1.41	0.290	1.12	0.777	0.208	0.202	0.153	---	---	0.631	1963
1964	---	---	0.273	0.789	0.856	0.297	0.243	0.186	0.186	0.155	---	---	0.373	1964
1965	---	---	0.241	5.96	1.06	0.509	1.03	0.464	1.06	0.435	---	---	1.34	1965
1966	---	---	1.20	2.33	1.39	0.583	0.207	0.227	0.206	0.196	---	---	0.777	1966
1967	---	---	0.230	3.03	1.14	0.239	0.185	0.198	0.238	0.173	---	---	0.673	1967
1968	---	---	0.304	0.864	0.396	0.221	0.238	0.224	0.407	0.246	---	---	0.373	1968
1969	---	---	0.210	6.39	1.49	0.796	2.81	0.485	0.403	0.521	---	---	1.63	1969
1970	---	---	0.323	8.95	7.94	1.37	0.836	0.290	0.498	0.595	---	---	2.59	1970
1971	---	---	0.283	1.85	1.09	3.67	3.86	1.02	0.603	1.04	---	---	1.67	1971
1972	---	---	0.986	6.40	1.93	1.07	0.232	0.134	0.085	0.212	---	---	1.37	1972
1973	---	---	0.488	0.522	0.714	0.419	0.159	0.247	0.813	0.415	---	---	0.476	1973
1974	---	---	0.204	10.2	4.59	1.26	0.149	0.113	0.228	0.363	---	---	2.12	1974
1975	---	---	0.294	3.37	2.92	0.884	0.207	0.989	1.22	0.671	---	---	1.31	1975
1976	---	---	0.398	9.10	1.07	0.749	0.203	0.082	0.117	0.152	---	---	1.45	1976
1977	---	---	0.479	0.675	1.07	0.613	1.23	0.306	1.09	0.584	---	---	0.755	1977
1978	---	---	0.434	3.05	5.56	0.428	0.139	0.151	0.592	0.200	---	---	0.777	1978
1979	---	---	0.334	10.1	5.39	0.735	0.525	0.126	0.231	0.196	---	---	2.19	1979
1980	---	---	0.203	0.936	0.261	0.191	0.161	0.228	0.325	0.385	---	---	0.335	1980
1981	---	---	0.595	0.337	0.369	0.324	0.185	0.150	0.073	0.280	---	---	0.295	1981
1982	---	---	0.254	1.67	0.620	0.358	0.791	0.307	0.248	0.285	---	---	0.564	1982
1983	---	---	0.285	6.88	1.13	0.406	0.475	0.201	0.202	0.263	---	---	1.21	1983
1984	---	---	0.195	0.462	0.622	0.375	0.222	0.210	0.175	0.212	---	---	0.311	1984
1985	---	---	0.481	2.37	0.253	0.219	0.366	0.539	0.365	0.439	---	---	0.625	1985
1986	---	---	1.04	3.02	1.75	0.221	0.409	0.181	0.190	0.218	---	---	0.976	1986
1987	---	---	0.470	5.37	0.261	0.227	0.389	0.680	0.192	0.244	---	---	0.967	1987
1988	---	---	0.306	0.395	0.448	0.174	0.175	0.209	0.165	0.151	---	---	0.253	1988
1989	---	---	0.130	0.231	0.152	0.215	0.135	0.176	0.185	0.204	---	---	0.178	1989
1990	---	---	0.224	1.13	0.582	0.258	0.226	0.188	0.175	0.160	---	---	0.366	1990
MEAN	---	---	0.421	3.38	1.45	0.639	0.566	0.301	0.345	0.313	---	---	0.923	MEAN

LOCATION - LAT 50 13 34 N DRAINAGE AREA 854 km²
LONG 099 27 17 W REGULATED SINCE 1960

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "WHITEMUD RIVER NEAR NEEPAWA"

BOGGY CREEK NEAR NEEPAWA - STATION NO. 05LL011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1960	---	---	---	---	1960
1961	---	1.63 CN MAY 31	0.003 CN OCT 24 *	8 210	1961
1962	---	9.34 CN APR 24	0 CN SEP 09 *	15 100	1962
1963	---	4.08 CN JUN 24	0.119 CN OCT 19	13 300	1963
1964	---	2.00 CN MAY 06	0.105 CN JUN 03	7 890	1964
1965	---	19.7 CN APR 16	0 CN AUG 14	28 400	1965
1966	---	5.01 CN MAR 22	0.108 CN SEP 26	16 400	1966
1967	---	9.15 CN APR 18	0.125 CN JUN 09	14 200	1967
1968	---	1.23 CN APR 11	0.113 CN JUL 09	7 900	1968
1969	---	22.2 CN APR 16	0.201 CN JUN 20	34 400	1969
1970	---	48.7 CN APR 29 *	0.082 CN AUG 19	54 800	1970
1971	---	11.4 CN JUN 16	0.215 CN SEP 26	35 400	1971
1972	---	13.9 CN APR 16	0 CN JUL 12	28 900	1972
1973	---	3.65 CN SEP 04	0 CN JUL 14	10 100	1973
1974	---	41.1 CN APR 21	0.022 CN AUG 17	44 900	1974
1975	---	17.2 CN APR 29	0.007 CN JUL 09	27 800	1975
1976	---	29.4 CN APR 10	0.042 CN AUG 08	30 800	1976
1977	---	4.53 CN JUL 13	0.059 CN AUG 23	16 000	1977
1978	---	5.07 E CN APR 16	0.059 CN JUN 29	16 400	1978
1979	---	36.8 B CN APR 25	0.088 CN OCT 09	46 300	1979
1980	---	1.48 B CN APR 09	0.110 CN AUG 14	7 080	1980
1981	0.991 AT 19:38 CST CN MAR 17	0.898 CN MAR 31	0 CN AUG 26	6 250	1981
1982	4.54 B AT 13:57 CST CN APR 16	4.47 B CN APR 18	0.164B CN APR 04	11 900	1982
1983	26.4 AT 05:23 CST CN APR 21 *	22.1 CN APR 22	0.102B CN MAR 01	25 600	1983
1984	1.60 AT 10:47 CST CN MAY 06	1.49 CN MAY 06	0.145 CN JUL 26	6 580	1984
1985	6.57 AT 22:55 CST CN APR 05	6.33 B CN APR 05	0.041B CN MAR 17	13 200	1985
1986	16.4 AT 17:47 CST CN MAR 30	14.7 CN MAR 30	0.158 CN JUN 24	20 700	1986
1987	19.2 AT 21:22 CST CN APR 07	18.4 CN APR 08	0.171 CN MAY 19	20 500	1987
1988	1.10 AT 13:20 CST CN APR 06	0.922 CN APR 06	0.138 CN AUG 29	5 360	1988
1989	0.880 AT 20:45 CST CN APR 04	0.575 CN JUN 15	0.042 CN MAY 06	3 770	1989
1990	---	2.25 B CN APR 08	0.121 CN OCT 02	7 740	1990
				19 500	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOSSHILL CREEK NEAR VIRDEN - STATION NO. 05MG002

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.146	0.021	0.006	0	0	0	0	0	---	---	0.022	1959
1960	---	---	0	1.88	0.047	0.007	0	0	0	0	---	---	0.238	1960
1961	---	---	0.017	0.038	0.009	0	0	0	0	0	---	---	0.008	1961
1962	---	---	0	0.136	0.012	0.005	0	0	0	0	---	---	0.019	1962
1963	---	---	0.607	0.193	0.032	0.317	0.127	0.002	0.001	0	---	---	0.160	1963
1964	---	---	0.017	1.76	0.760	0.025	0.003	0	0	0.003	---	---	0.317	1964
1965	---	---	0	1.52	0.079	0.052	0.679	0.022	0.147	0.126	---	---	0.325	1965
1966	---	---	0.397	0.637	0.208	0.027	0.002	0.001	0	0	---	---	0.158	1966
1967	---	---	0	0.998	0.259	0.003	0	0	0	0	---	---	0.155	1967
1968	---	---	0.345	0.022	0.012	0.002	0	0.006	0.008	0.004	---	---	0.050	1968
1969	---	---	0	3.51	0.166	0.009	0.251	0.028	0	0.011	---	---	0.489	1969
1970	---	---	0	1.40	0.691	0.034	0.106	0.051	0.029	0.201	---	---	0.311	1970
1971	---	---	0.035	0.396	0.078	0.499	0.130	0.001	0.039	0.027	---	---	0.149	1971
1972	---	---	0.662	0.999	0.075	0.002	0	0	0.001	0.001	---	---	0.216	1972
1973	---	---	0.038	0.017	0.026	0.002	---	0.013	0.027	0.127	---	---	---	1973
1974	---	---	0	2.29	0.583	0.084	---	0	0	0	---	---	---	1974
1975	---	---	0	2.08	0.545	0.345	---	0.031	0.130	0.144	---	---	---	1975
1976	---	---	0.020	7.09	0.244	0.071	---	0	0	0	---	---	---	1976
MEAN	---	---	0.127	1.39	0.213	0.082	0.093	0.009	0.021	0.036	---	---	0.187	MEAN

LOCATION - LAT 49 50 34 N LONG 100 58 02 W DRAINAGE AREA, 184 km² NATURAL FLOW

BOSSHILL CPEEK NEAR VIRDEN - STATION NO. 05MG002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	0.510 ON MAR 24	0B ON MAR 01 *	461	1959
1960	---	6.51 ON APR 03	0 ON MAR 01	5 030	1960
1961	---	0.170 ON APR 03	0 ON MAR 01	169	1961
1962	---	0.453 ON APR 16	0 ON MAR 01	399	1962
1963	---	1.57 ON MAR 23	0B ON MAR 01	1 380	1963
1964	---	3.03 B ON APR 10	0B ON MAR 01	6 720	1964
1965	---	7.93 E ON APR 14	0E ON MAR 01	6 880	1965
1966	---	4.02 B ON MAR 31	0B ON MAR 01	3 350	1966
1967	---	2.97 ON APR 12	0B ON MAR 01	3 290	1967
1968	---	0.861B ON MAR 13	0B ON MAR 01	1 070	1968
1969	---	18.1 ON APR 14	0B ON MAR 01	10 400	1969
1970	---	3.11 ON APR 30	0B ON MAR 01	6 590	1970
1971	---	3.09 ON JUN 10	0B ON MAR 01	3 150	1971
1972	---	2.77 B ON MAR 23	0B ON MAR 01	4 570	1972
1973	---	0.246 ON MAR 19	0B ON MAR 01	---	1973
1974	---	10.8 ON APR 19	0B ON MAR 01	---	1974
1975	---	6.68 B ON APR 17	0B ON MAR 01	---	1975
1976	---	24.0 ON APR 10 *	0E ON AUG 01	---	1976
				3 960	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOYNE CHANNEL NEAR HOMEWOOD - STATION NO. 05OF004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1918	---	---	---	---	---	---	---	---	---	0.017	0.021	---	---	1918
1919	---	---	---	1.34	0.081	0.005	0	0.004	0	---	---	---	---	1919
MEAN	---	---	---	1.34	0.081	0.005	0	0.004	0	0.017	0.021	---	---	MEAN

LOCATION - LAT 49 31 05 N LONG 097 50 40 W REGULATED

BOYNE CHANNEL NEAR HOMEWOOD - STATION NO. 05OF004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1918	---	---	---	---	1918
1919	---	---	---	---	1919
				---	MEAN

BOYNE RIVER NEAR CARMAN - STATION NO. 05OF003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1918	---	---	---	---	---	---	---	---	---	0.293	0.472	---	---	1918
1919	---	---	---	4.28	0.842	0.604	0.142	0.117	0.114	0.086	---	---	---	1919
1920	---	---	---	---	1.70	0.570	0.217	0.068	0	---	---	---	---	1920
1921	---	---	---	6.74	1.14	0.557	4.09	---	---	---	---	---	---	1921
1922	---	---	---	4.36	1.55	0.316	0.257	0.115	---	---	---	---	---	1922
1923	---	---	---	---	3.64	0.856	0.259	0.131	---	---	---	---	---	1923
1924	---	---	---	---	1.52	0.436	0.182	0.158	0.015	---	---	---	---	1924
1925	---	---	---	5.10	1.17	1.18	0.403	0.076	0.080	0.198	---	---	---	1925
1926	---	---	---	---	0.449	0.478	0.171	0.078	0.291	---	---	---	---	1926
1927	---	---	---	10.6	10.8	3.42	1.31	0.604	0.452	0.526	---	---	---	1927
1928	---	---	---	2.55	0.969	3.47	4.29	0.666	0.180	0.265	---	---	---	1928
1929	---	---	---	---	0.790	0.399	0.057	---	---	---	---	---	---	1929
1930	---	---	---	11.6	3.56	0.940	0.221	0.015	0.015	---	---	---	---	1930
1956	---	---	---	15.0	8.84	1.08	0.285	0.346	0.968	0.407	---	---	---	1956
1957	---	---	2.73	2.77	1.37	1.04	0.561	0.331	0.241	0.281	---	---	---	1957
1958	---	---	0.776	2.39	0.393	0.085	0.165	0.019	0	0	---	---	---	1958
1959	---	---	0.368	6.51	1.88	1.00	0.160	0.050	0.039	1.19	1.20	0.349	---	1959
1960	0.245	0.316	0.364	17.5	2.71	1.03	0.266	0.158	0.053	0.065	0.142	0.073	1.88	1960
1961	0.035	0.089	2.95	4.77	1.71	0.222	0.013	0	0	0	0	0	0.817	1961
1962	0	0	0	8.18	3.13	3.51	0.633	5.02	1.71	0.233	0.208	0.173	1.90	1962
1963	0.092	0.019	2.66	3.49	2.02	5.38	1.17	0.456	0.036	0.089	0.082	0.062	1.30	1963
1964	0.055	0.040	0.027	3.91	1.16	0.820	0.336	0.042	2.03	0.716	0.160	0.078	0.775	1964
1965	0.057	0.049	0.065	15.5	3.51	1.85	1.20	0.428	0.896	1.14	0.692	0.282	2.13	1965
1966	0.161	0.024	3.04	12.0	6.94	0.910	3.15	0.209	0.123	0.076	0.249	0.235	2.52	1966
1967	0.243	0.243	0.228	12.8	3.98	0.647	0.356	0.242	0	0.032	0.044	0.051	1.56	1967
1968	0.034	0.081	1.28	1.75	2.01	0.534	0.779	4.74	2.06	0.576	0.433	0.424	1.23	1968
1969	0.314	0.183	0.183	18.2	4.05	1.75	7.94	1.54	0.284	0.310	1.60	0.157	3.04	1969
1970	0.130	0.134	0.158	16.6	23.1	2.11	0.402	0.041	0.038	0.085	0.448	0.354	3.65	1970
1971	0.194	0.126	0.171	12.9	2.52	1.81	1.19	0.376	0.219	0.798	0.703	0.548	1.77	1971
1972	0.236	0.125	3.20	9.20	2.30	0.399	0.113	0.146	0.093	0.298	0.264	0.057	1.36	1972
1973	0.048	0.089	0.404	0.879	0.709	0.228	0.218	0.101	0.018	0.259	0.407	0.314	0.311	1973
1974	0.060	0.137	0.159	26.7	14.2	2.26	0.410	0.091	0.081	0.140	0.203	0.201	3.71	1974
1975	0.170	0.110	0.162	2.50	2.68	1.34	1.08	0.311	0.236	0.245	0.162	0.096	0.776	1975
1976	0.086	0.096	0.126	14.3	0.992	0.219	0.087	0.136	0.148	0.067	0.032	0.024	1.34	1976
1977	0.020	0.021	0.084	0.068	1.23	0.268	0.029	0.024	0.403	0.572	0.206	0.172	0.260	1977
1978	0.154	0.160	0.111	9.03	2.15	1.35	2.94	0.926	0.408	0.219	0.268	0.088	1.48	1978
1979	0.038	0.214	0.257	23.4	19.1	3.05	0.597	0.089	0.089	0.070	0.116	0.180	3.93	1979
1980	0.177	0.144	0.154	3.39	0.666	0.020	0.054	0.027	0.052	0.023	0.012	0.001	0.389	1980
1981	0	0.126	0.370	0.323	0.240	0.671	0.274	0.276	0.747	0.118	0.026	0.011	0.273	1981
1982	0	0	0.057	1.94	0.675	0.320	0.254	0.005	0.020	0.080	0.020	0.119	0.290	1982
1983	0.125	0.135	0.341	10.2	0.816	0.296	0.230	0.031	0.005	0.103	0.082	0.012	1.02	1983
1984	0	0	0.053	0.092	0.580	0.499	0.086	0.053	0.018	0.018	0.035	0.056	0.124	1984
1985	0.053	0.039	5.44	5.58	0.480	0.170	0.036	1.71	0.208	0.629	0.366	0.330	1.26	1985
1986	0.333	0.099	7.11	11.4	7.77	0.509	1.03	0.420	0.057	0.077	0.249	0.222	2.48	1986
1987	0.130	0.125	2.11	13.4	0.830	0.248	0.141	0.114	0.061	0.433	0.238	0.166	1.49	1987
1988	0.156	0.106	0.171	1.95	1.05	0.094	0.039	0.004	0.002	0.002	0.031	0.035	0.301	1988
1989	0.083	0.032	0.026	2.90	0.382	0.185	0.073	0.076	0.080	0.058	0.027	0.016	0.325	1989
1990	0.004	0.021	0.459	6.37	0.680	2.14	0.992	0.123	0.025	0.013	0.031	0.025	0.900	1990
MEAN	0.111	0.099	1.05	8.24	3.30	1.09	0.830	0.460	0.293	0.271	0.279	0.154	1.44	MEAN

LOCATION - LAT 49 31 00 N LONG 097 56 40 W

DRAINAGE AREA, 1 150 km² REGULATED

BOYNE RIVER NEAR CARMAN - STATION NO. 05OF003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1918	---	---	---	---	1918
1919	---	13.5 ON APR 09	---	---	1919
1920	---	---	0 ON AUG 23 *	---	1920
1921	---	---	---	---	1921
1922	---	15.3 B ON APR 07	---	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1927	---	29.7 ON MAY 14	---	---	1927
1928	---	12.6 ON JUL 09	---	---	1928
1929	---	---	---	---	1929
1930	---	34.0 ON APR 09	0 ON AUG 11	---	1930
1956	---	56.1 B ON APR 25	0 ON SEP 26	---	1956
1957	---	10.8 B ON MAR 26	---	---	1957
1958	---	6.09B ON APR 01	0 ON JUN 19	---	1958
1959	---	14.9 B ON APR 06	0 B ON MAR 01	---	1959
1960	---	43.0 ON APR 15	0.028 ON SEP 19	59 600	1960
1961	---	19.4 B ON MAR 28	0 ON JUL 31	32 800	1961
1962	---	38.0 B ON APR 23	0 ON JAN 01	59 900	1962
1963	---	14.5 ON JUN 05	0 B ON FEB 20	40 900	1963
1964	---	13.9 B ON APR 14	0 ON AUG 10	24 500	1964
1965	---	59.5 B ON APR 16	0.048B ON JAN 27	67 200	1965
1966	---	55.2 B ON APR 06	0 B ON FEB 16	79 400	1966
1967	---	37.9 ON APR 23	0 ON AUG 25	49 200	1967
1968	---	35.7 ON AUG 27	0.023B ON JAN 19	38 900	1968
1969	---	69.7 ON APR 15	0.048 ON SEP 22	95 800	1969
1970	---	105 ON APR 30	0.006 ON NOV 16	115 000	1970
1971	---	54.1 ON APR 13	0.005 ON SEP 29	55 900	1971
1972	---	19.3 B ON APR 16	0.008 ON OCT 06	43 100	1972
1973	---	1.18 ON APR 24	0.001 ON SEP 15	9 790	1973
1974	---	132 ON APR 22 *	0.004 ON AUG 17	117 000	1974
1975	---	11.4 ON JUN 30	0 ON AUG 02	24 500	1975
1976	35.1 AT 07:41 CST ON APR 12	34.8 ON APR 11	0 ON AUG 15	42 400	1976
1977	8.35 AT 19:03 CST ON MAY 21	7.39 ON MAY 21	0 ON JUL 14	8 200	1977
1978	---	23.8 B ON APR 13	0.007B ON APR 07	46 700	1978
1979	131 B AT 23:43 CST ON APR 22 *	119 ON APR 23	0.013B ON FEB 03	124 000	1979
1980	---	10.7 B ON APR 08	0 ON JUN 09	12 300	1980
1981	6.41 AT 08:07 CST ON JUN 26	2.47 ON JUN 26	0 B ON JAN 01	8 610	1981
1982	8.21B AT 00:27 CST ON APR 15	6.53B ON APR 15	0 B ON JAN 01	9 150	1982
1983	---	24.4 B ON APR 09	0 ON AUG 05	32 100	1983
1984	1.55 AT 21:26 CST ON JUN 10	1.40 ON JUN 11	0 B ON JAN 01	3 940	1984
1985	21.3 B AT 00:59 CST ON MAR 28	20.8 B ON MAR 27	0.001 ON JUL 22	39 700	1985
1986	43.8 B AT 20:06 CST ON MAR 30	39.4 B ON MAR 31	0 ON SEP 10	77 500	1986
1987	44.5 B AT 09:36 CST ON APR 07	40.5 B ON APR 07	0.023 ON SEP 08	46 900	1987
1988	8.31 AT 00:20 CST ON APR 07	7.44 ON APR 07	0.001 ON AUG 19	9 530	1988
1989	---	11.1 B ON APR 18	0.003B ON NOV 02	10 200	1989
1990	23.0 B AT 10:21 CST ON APR 03	22.1 B ON APR 03	0.002B ON JAN 05	28 400	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		45 400	MEAN

BOYNE RIVER NEAR RATHWELL - STATION NO. 05OF007

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	0.801	1.21	0.599	0.170	0	0	---	---	---	1963
1964	---	---	0	2.18	0.487	0.919	0.477	0.048	1.66	0.850	---	---	0.819	1964
1965	---	---	0	6.31	0.619	0.371	0.277	0.221	0.214	0.249	---	---	1.02	1965
1966	---	---	1.00	3.64	2.12	0.267	1.40	0.007	0	0	---	---	1.05	1966
MEAN	---	---	0.33	4.04	1.01	0.692	0.688	0.112	0.469	0.275	---	---	0.963	MEAN

LOCATION - LAT 49 38 10 N DRAINAGE AREA, 453 km^2
LONG 098 30 19 W NATURAL FLOW

BOYNE RIVER NEAR RATHWELL - STATION NO. 05OF007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	0 ON AUG 29 *	---	1963
1964	---	5.97 ON SEP 02	0B ON MAR 01	17 300	1964
1965	---	33.4 ON APR 14 *	0B ON MAR 01	21 500	1965
1966	---	6.55 ON APR 06	0B ON MAR 01	22 300	1966
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		20 400	MEAN

BOYNE RIVER NEAR ROSSISLE - STATION NO. 05OF011

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.026	6.50	1.57	0.074	0.016	0.001	0	0.022	---	---	1.01	1967
1968	---	---	0.613	0.613	0.899	0.182	0.221	0.946	0.369	0.138	---	---	0.513	1968
1969	---	---	0	9.96	1.50	0.727	2.83	1.04	0.202	0.225	---	---	2.05	1969
1970	---	---	0	13.2	8.31	0.635	0.122	0.005	0.018	0.040	---	---	2.77	1970
1971	---	---	0	6.70	1.07	0.504	0.312	0.199	0.101	0.337	---	---	1.16	1971
1972	---	---	2.26	3.92	0.990	0.143	0.036	0.063	0.063	0.080	---	---	0.949	1972
1973	---	---	0.249	0.327	0.290	0.060	0.034	0.058	0.045	0.083	---	---	0.182	1973
1974	---	---	0.042	15.5	5.31	0.696	0.061	0.017	0.023	0.045	---	---	2.70	1974
1975	---	---	0.040	1.50	1.16	0.674	0.194	0.027	0.055	0.132	---	---	0.469	1975
1976	---	---	0.147	9.13	3.17	0.063	0.007	0.010	0	0	---	---	1.20	1976
1977	---	---	0.045	0.830	0.335	0.050	0.031	0.025	0.287	0.256	---	---	0.182	1977
1978	---	---	0.085	7.19	2.00	0.794	2.03	0.704	0.172	0.135	---	---	1.63	1978
1979	---	---	0.073	16.8	5.85	1.37	0.134	0.012	0.060	0.300	---	---	3.55	1979
1980	---	---	0.003	2.45	0.169	0.072	0.012	0.004	0.011	0.027	---	---	0.338	1980
1981	---	0.116	0.157	0.190	0.101	0.148	0.344	0.061	0.012	0.030	---	---	0.132	1981
1982	---	---	0.106	0.749	0.290	0.238	0.019	0.008	0	0.055	---	---	0.191	1982
1983	---	---	0.346	7.53	0.258	0.068	0.013	0	0	0	---	---	1.01	1983
1984	---	---	0.181	0.218	0.300	0.137	0	0	0	0.040	---	---	0.109	1984
1985	---	---	3.27	3.45	0.245	0.048	0.016	0.364	0.012	0.166	---	---	0.944	1985
1986	---	---	1.00	5.61	4.31	0.409	1.32	0.369	0.031	0.117	---	---	2.16	1986
1987	---	---	1.50	8.58	0.830	0.030	0.013	0.191	0.170	0.152	---	---	1.34	1987
1988	---	---	0.307	1.16	0.554	0.007	0	0	0	0	---	---	0.251	1988
1989	---	---	0	2.09	0.076	0.023	0.001	0.004	0	0	---	---	0.269	1989
1990	---	---	0.650	3.61	0.437	0.742	0.486	0	0	0	---	---	0.732	1990
MEAN	---	0.116	0.647	5.30	1.71	0.340	0.356	0.171	0.068	0.099	---	---	1.08	MEAN

LOCATION - LAT 49 32 39 N DRAINAGE AREA, 574 km²
LONG 098 24 52 W NATURAL FLOW

BOYNE RIVER NEAR ROSSISLE - STATION NO. 05OF011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	23.3 CN APR 21	0 B CN MAR 01 *	21 400	1967
1968	---	14.2 E CN AUG 24	0 B CN MAR 01	10 900	1968
1969	---	42.8 CN APR 12	0 B CN MAR 01	43 500	1969
1970	---	51.8 R CN APR 29	0 B CN MAR 01	58 600	1970
1971	---	24.3 B CN APR 22	0 B CN MAR 01	24 600	1971
1972	---	9.17 B CN MAY 21	0 B CN MAR 01	20 100	1972
1973	---	1.00 B CN MAR 14	0 B CN MAR 01	3 860	1973
1974	---	68.2 CN APR 21	0.006 CN AUG 04	57 300	1974
1975	---	3.91 CN APR 29	0.003 CN AUG 07	9 940	1975
1976	---	27.2 CN APR 08	0 B CN JUL 07	25 400	1976
1977	---	1.91 CN MAY 16	0 B CN MAR 01	3 860	1977
1978	---	20.2 CN APR 10	0.040 B CN MAR 01	34 400	1978
1979	---	83.6 A CN APR 21 *	0 CN AUG 12	75 100	1979
1980	9.47 B AT 10:16 CST CN APR 10	7.28 B CN APR 10	0 B CN MAR 01	7 150	1980
1981	11.3 AT 02:46 CST CN JUL 16	5.53 B CN JUL 16	0 B CN AUG 15	2 780	1981
1982	---	1.64 CN APR 21	0 B CN MAR 01	3 830	1982
1983	10.3 AT 22:55 CST CN APR 08	15.9 CN APR 11	0 B CN JUL 08	21 300	1983
1984	1.65 AT 16:02 CST CN JUN 02	1.23 CN JUN 02	0 B CN MAR 01	2 320	1984
1985	11.3 AT 00:40 CST CN APR 03	10.5 B CN MAR 31	0 B CN MAR 01	20 000	1985
1986	44.3 B AT 17:00 CST CN MAR 30	24.9 B CN MAR 30	0 CN SEP 12	45 780	1986
1987	29.6 B AT 00:45 CST CN APR 06 *	27.0 B CN APR 06	0 CN AUG 09	38 400	1987
1988	9.26 B AT 07:46 CST CN APR 05	6.08 B CN JUN 07	0 CN JUN 07	5 320	1988
1989	6.15 B AT 13:07 CST CN APR 08	5.03 B CN APR 07	0 B CN MAR 01	5 700	1989
1990	15.3 B AT 11:24 CST CN APR 02	15.0 B CN APR 02	0 B CN MAR 01	15 500	1990
				22 800	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1989

BOYNE RIVER NEAR STEPHENFIELD - STATION NO. 05OF006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1952	---	---	---	---	---	---	---	---	0.006	0.014	0.025	0.023	---	1952
1953	0.006	0.003	0.113	1.17	0.742	7.82	1.45	2.84	0.075	0.059	0.085	0.057	1.20	1953
1954	0.039	0.061	0.121	1.19	1.63	6.03	5.22	0.379	0.834	1.16	1.18	0.572	1.54	1954
1955	0.159	0.143	0.164	14.1	2.12	3.73	3.66	0.153	0.018	0.066	0.079	0.110	2.03	1955
1956	0.091	0.055	0.104	13.3	7.50	0.969	0.141	0.576	1.08	0.534	0.771	0.197	2.10	1956
1957	0.093	0.125	2.68	2.79	1.33	1.10	0.520	0.282	0.232	0.142	0.165	0.057	0.796	1957
1958	0.015	0.033	1.25	2.14	0.512	0.066	0.114	0.024	0.007	0.040	0.077	0.058	0.362	1958
1959	0.055	0.029	0.571	5.78	1.81	0.788	0.126	0.048	0.079	1.13	0.991	0.296	0.973	1959
1960	0.181	0.087	0.145	15.3	2.48	1.10	0.271	0.272	0.053	0.123	0.168	0.052	1.67	1960
1961	0.050	0.030	3.76	4.65	1.51	0.151	0.032	0.011	0.012	0.010	0.002	0	0.854	1961
1962	0	0	0	9.01	2.60	2.90	0.510	6.12	1.52	0.334	0.223	0.131	1.96	1962
1963	0.033	0.011	2.84	3.13	1.70	4.42	1.19	0.359	0.127	0.431	0.140	0.061	1.20	1963
1964	0.034	0.021	0.009	3.13	1.03	0.946	0.322	0.081	2.17	0.197	0.218	0.140	0.685	1964
1965	0.099	0.074	0.104	15.7	3.04	1.25	1.23	0.482	0.703	0.928	0.560	0.244	2.02	1965
1966	0.041	0.008	1.32	12.2	7.38	0.835	2.57	0.154	0.064	0.115	0.241	0.158	2.09	1966
1967	0.132	0.024	0.068	10.8	3.16	0.702	0.333	0.062	0.020	0.031	0.062	0.053	1.28	1967
1968	0.008	0.014	1.80	1.26	1.64	0.354	0.717	4.18	1.80	0.578	0.499	0.482	1.10	1968
1969	0.258	0.215	0.224	18.2	3.12	2.06	6.64	1.35	0.275	0.448	1.39	0.135	2.85	1969
1970	0.129	0.136	0.132	19.3	17.8	1.52	0.287	0.012	0.034	0.111	0.311	0.162	3.33	1970
1971	0.089	0.124	0.167	12.6	2.12	1.37	1.17	0.308	0.224	0.928	0.796	0.471	1.68	1971
1972	0.160	0.021	3.02	8.28	1.94	0.316	0.046	0.090	0.043	0.334	0.234	0.146	1.22	1972
1973	0.106	0.139	0.548	0.623	0.581	0.184	0.156	0.075	0.068	0.257	0.463	0.373	0.299	1973
1974	0.157	0.171	0.189	23.4	10.7	1.77	0.274	0.013	0.045	0.049	0.258	0.217	3.09	1974
1975	0.162	0.138	0.177	2.85	2.13	1.70	0.628	0.310	0.235	0.256	0.166	0.099	0.737	1975
1976	0.079	0.075	0.094	14.2	0.827	0.153	0.016	0.090	0.187	0.057	0.067	0.046	1.30	1976
1977	0.059	0.129	0.090	0.017	1.26	0.126	0.018	0.071	0.551	0.463	0.266	0.261	0.278	1977
1978	0.228	0.170	0.117	9.06	1.09	1.24	2.97	0.848	0.390	0.209	0.393	0.093	1.48	1978
1979	0.040	0.069	0.150	24.1	15.6	2.45	0.282	0.062	0.056	0.046	0.094	0.178	3.59	1979
1980	0.193	0.170	0.150	3.63	0.501	0.089	0.078	0.116	0.056	0.017	0.012	0.028	0.416	1980
1981	0.078	0.072	0.357	0.309	0.286	0.631	0.429	0.253	0.719	0.196	0.064	0.050	0.287	1981
1982	0.029	0.025	0.023	2.16	0.632	0.371	0.075	0.013	0.132	0.045	0.189	0.176	0.320	1982
1983	0.157	0.123	0.236	10.5	0.669	0.256	0.265	0.147	0.078	0.155	0.043	0.018	1.04	1983
1984	0.004	0.020	0.079	0.389	0.630	0.447	0.194	0.131	0.066	0.028	0.080	0.061	0.178	1984
1985	0.075	0.065	4.93	4.75	0.497	0.150	0.141	2.68	0.314	0.480	0.403	0.262	1.24	1985
1986	0.278	0.071	6.93	8.63	6.88	0.577	1.40	0.484	0.153	0.150	0.297	0.206	2.19	1986
1987	0.120	0.108	2.06	12.4	0.426	0.182	0.100	0.247	0.329	0.397	0.085	0.206	1.38	1987
1988	0.114	0.063	0.407	2.03	0.892	0.136	0.164	0.133	0.083	0.065	0.077	0.055	0.351	1988
1989	0.077	0.076	0.074	2.86	0.297	0.172	0.128	0.135	0.134	0.081	0.067	0.035	0.342	1989
1990	0.038	0.056	0.380	6.16	0.727	1.96	0.720	0.209	0.108	0.053	0.043	0.043	0.869	1990
MEAN	0.097	0.078	0.931	7.95	2.92	1.34	0.910	0.626	0.335	0.275	0.290	0.154	1.32	MEAN

LOCATION - LAT 49 30 48 N DRAINAGE AREA, 958 km²
LONG 098 14 58 W REGULATED SINCE 1964

BOYNE RIVER NEAR STEPHENFIELD - STATION NO. 05OF006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1952	---	---	---	---	1952
1953	---	26.9 CN JUN 04	0.003B CN FEB 01	37 800	1953
1954	---	31.7 E CN JUL 01	0.028B CN JAN 01	48 500	1954
1955	---	41.3 B CN APR 05	0 CN SEP 02 *	64 200	1955
1956	---	44.7 B CN APR 21	0 B CN FEB 20	66 400	1956
1957	---	11.3 B CN MAR 23	0.028 CN SEP 21	25 100	1957
1958	---	6.20B CN MAR 31	0 B CN JAN 18	11 400	1958
1959	---	17.9 B CN APR 04	0.003B CN MAR 16	30 700	1959
1960	---	41.1 CN APR 14	0.003 CN OCT 01	52 800	1960
1961	---	26.5 B CN MAR 27	0 CN OCT 20	26 900	1961
1962	---	45.0 B CN APR 21	0 B CN JAN 01	61 900	1962
1963	---	15.0 CN JUN 05	0 B CN FEB 19	38 000	1963
1964	---	12.5 CN SEP 02	0 B CN APR 09	21 700	1964
1965	---	63.4 CN APR 15	0.034 CN JUN 14	63 700	1965
1966	---	42.5 B CN APR 04	0 B CN FEB 18	66 000	1966
1967	---	43.3 CN APR 21	0 CN AUG 31	40 400	1967
1968	---	32.8 CN AUG 25	0 B CN JAN 18	34 800	1968
1969	---	70.8 CN APR 12	0.122 CN SEP 20	90 000	1969
1970	111 AT 13:27 CST ON APR 29	108 CN APR 29	0.008 CN AUG 12	105 000	1970
1971	60.3 AT 12:00 CST ON APR 11	57.2 CN APR 11	0.019 CN AUG 31	33 100	1971
1972	20.7 AT 13:44 CST ON APR 15	10.7 CN APR 15	0.003 CN SEP 20	38 400	1972
1973	---	1.70B CN MAR 27	0.004A CN JUL 24	9 420	1973
1974	136 AT 17:00 CST ON APR 21	114 CN APR 21	0.001A CN AUG 06	97 600	1974
1975	15.9 AT 06:10 CST ON JUN 29	14.3 CN JUN 29	0.001A CN JUL 30	23 200	1975
1976	43.9 AT 16:37 CST ON APR 09	4.8 CN APR 09	0 CN AUG 08	41 200	1976
1977	---	2.76A CN MAY 20	0 CN APR 25	8 750	1977
1978	---	26.1 B CN APR 21	0.045B CN DEC 27	46 700	1978
1979	155 AT 08:49 CST ON APR 22 *	137 CN APR 22 *	0.029 CN SEP 14	113 000	1979
1980	12.4 AT 15:10 CST ON APR 07	11.5 B CN APR 07	0.011 CN OCT 28	13 200	1980
1981	7.16 AT 22:11 CST ON JUN 24	5.01 CN JUN 25	0.001A CN OCT 22	9 060	1981
1982	---	6.26A CN APR 13	0.001A CN JUL 22	10 100	1982
1983	32.0 B AT 13:45 CST ON APR 09	30.0 B CN APR 09	0.001 CN NOV 22	32 900	1983
1984	2.19 AT 14:35 CST ON APR 14	1.74 CN JUN 09	0.001B CN JAN 17	5 610	1984
1985	19.5 AT 09:22 CST ON AUG 18	19.2 B CN MAR 26	0.020 CN JUL 07	39 000	1985
1986	40.7 AT 21:10 CST ON MAR 29	36.8 CN MAR 30	0.007 CN MAR 20	69 000	1986
1987	46.4 AT 16:41 CST ON APR 06	44.3 CN APR 06	0.010 CN DEC 02	43 600	1987
1988	7.54 AT 17:07 CST ON APR 04	7.24 CN APR 04	0.008E CN SEP 21	11 100	1988
1989	10.6 AT 15:24 CST ON APR 16	9.37 CN APR 16	0.022B CN DEC 18	10 800	1989
1990	24.9 AT 21:00 CST ON APR 01	21.8 B CN APR 02	0.002B CN DEC 14	27 400	1990
				41 800	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOYNE RIVER NEAR TREHERNE - STATION NO. 05OF010

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.035	2.15	0.605	0.004	0.042	0	0	0	---	---	0.692	1967
1968	---	---	0.326	0.418	0.327	0.077	0.073	0.201	0.135	0.093	---	---	0.298	1968
1969	---	---	0.005	5.65	0.803	0.756	1.49	0.519	0.084	0.100	---	---	1.73	1969
1970	---	---	0	6.73	3.22	0.316	0.061	0.011	0.018	0.026	---	---	2.55	1970
1971	---	---	0	4.72	0.811	0.278	0.589	0.105	0.042	0.193	---	---	1.39	1971
1972	---	---	0.972	1.99	0.450	0.048	0.008	0.131	0.021	0.029	---	---	0.863	1972
1973	---	---	0.297	0.163	0.146	0.039	0.098	0.010	0.023	0.038	---	---	0.162	1973
1974	---	---	0	8.80	2.22	0.367	0.014	0	0.013	0.041	---	---	2.82	1974
1975	---	---	0.001	0.789	0.699	0.173	0.023	0.003	0.020	0.038	---	---	0.414	1975
1976	---	---	0.074	3.17	0.178	0.053	0.005	0	0	0	---	---	1.35	1976
1977	---	---	0.019	0.145	0.223	0.018	0.491	0.123	0.406	0.147	---	---	0.102	1977
1978	---	---	0.095	2.45	0.537	0.358	---	---	---	---	---	---	0.851	1978
1979	---	---	0.017	6.86	3.25	0.518	---	---	---	---	---	---	2.64	1979
1980	---	---	0.023	0.903	0.069	0.009	---	---	---	---	---	---	0.248	1980
1981	---	---	0.029	0.100	0.098	0.071	---	---	---	---	---	---	0.075	1981
1982	---	---	0.098	0.649	0.151	0.045	---	---	---	---	---	---	0.234	1982
1983	---	---	0.520	3.88	0.197	0.043	---	---	---	---	---	---	1.15	1983
1984	---	---	0.179	0.129	0.170	0.031	---	---	---	---	---	---	0.128	1984
1985	---	---	1.59	1.45	0.105	0.023	---	---	---	---	---	---	0.792	1985
1986	---	---	2.17	1.87	1.41	0.227	---	---	---	---	---	---	1.42	1986
1987	---	---	1.04	3.61	0.101	0.019	---	---	---	---	---	---	1.18	1987
1988	---	---	0.221	0.601	0.366	0.005	---	---	---	---	---	---	0.298	1988
1989	---	---	0	1.34	0.054	0.044	0	---	---	---	---	---	0.354	1989
1990	---	---	0.625	1.22	0.168	0.677	---	---	---	---	---	---	0.667	1990
MEAN	---	---	0.347	2.57	0.665	0.175	0.240	0.101	0.069	0.061	---	---	0.933	MEAN

LOCATION - LAT 49 40 15 N DRAINAGE AREA, 274 km²
LONG 098 38 35 W NATURAL FLOW

REMARKS - HIGHER MAXIMUM DISCHARGES ARE KNOWN TO HAVE OCCURRED OUTSIDE THE STANDARD PERIOD IN 1973 AND 1977

BOYNE RIVER NEAR TREHERNE - STATION NO. 05OF010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	8.95 CH APR 21	0 B CH MAR 01 *	7 290	1967
1968	---	2.18 CH MAY 16	0 B CH MAR 01	3 030	1968
1969	---	29.7 CH APR 10	0 B CH MAR 01	18 200	1969
1970	---	34.0 R CH APR 26	0 B CH MAR 01	26 900	1970
1971	---	12.8 CH APR 08	0 B CH MAR 01	14 600	1971
1972	---	4.25 B CH APR 10	0 B CH MAR 01	9 100	1972
1973	---	0.425B CH MAR 12	0 B CH MAR 01	1 710	1973
1974	---	49.6 CH APR 21 *	0 B CH MAR 01	29 700	1974
1975	---	4.25 E CH MAY 25	0 B CH MAR 01	4 370	1975
1976	---	19.4 B CH APR 06	0.018 CH JUN 30	14 200	1976
1977	---	0.994 CH MAY 14	0 B CH MAR 01	1 070	1977
1978	---	7.62 CH APR 10	0.016B CH MAR 01	8 970	1978
1979	---	37.2 B CH APR 21	0.016B CH MAR 01	27 900	1979
1980	3.00 B AT 20:28 CST CH APR 06	2.70 B CH APR 05	0 CH JUN 08	2 610	1980
1981	0.211 AT 22:38 CST CH MAY 29	0.176 CH MAY 02	0.006B CH MAR 05	785	1981
1982	2.32 B AT 08:38 CST CH APR 13	1.90 B CH APR 13	0 B CH MAR 01	2 470	1982
1983	14.9 AT 03:25 CST CH APR 09	12.3 CH APR 09	0 B CH MAR 01	12 100	1983
1984	---	1.59 B CH MAR 25	0 B CH MAR 01	1 350	1984
1985	6.22 B AT 01:18 CST CH MAR 26	5.92 B CH MAR 26	0 B CH MAR 01	8 350	1985
1986	12.2 AT 14:23 CST CH MAR 29	11.2 CH MAR 29	0.010 CH JUN 15	15 000	1986
1987	19.1 AT 02:22 CST CH APR 06 *	14.5 CH APR 06	0.006 CH JUN 22	12 500	1987
1988	2.85 B AT 23:08 CST CH APR 03	2.44 B CH APR 03	0 CH JUN 25	3 140	1988
1989	6.52 B AT 07:00 CST CH APR 03	5.79 B CH APR 03	0 B CH MAR 01	3 730	1989
1990	6.01 B AT 20:16 CST CH APR 02	5.16 B CH MAR 31	0 B CH MAR 01	7 040	1990
				9 840	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED R - REVISED SINCE JAN 01 1989

BROKENHEAD RIVER AT ST. OUENS - STATION NO. 05SA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	9.59	3.60	2.30	11.7	13.5	8.39	---	---	1912
1913	---	---	---	---	5.95	3.04	5.37	5.69	4.88	3.46	2.44	---	---	1913
1914	0	0	0.156	5.13	6.70	13.4	15.0	2.43	2.39	6.42	3.89	0.786	4.72	1914
1915	0.170	0.113	0.085	10.6	14.8	6.44	3.60	0.403	0.126	1.84	1.14	0.425	3.32	1915
1916	0.142	0.142	0.142	20.3	16.9	5.79	6.87	5.14	1.88	2.10	2.54	0.283	5.18	1916
1917	0.057	0.057	0.170	5.95	5.09	1.07	0.604	0.603	0.693	0.690	1.30	0.113	1.37	1917
1918	0.028	0	1.18	2.53	1.33	3.88	1.75	2.07	0.791	1.28	4.02	0.601	1.63	1918
1919	0.212	0.061	0.231	11.2	4.71	2.09	22.1	3.40	3.37	2.16	0.784	0.116	4.31	1919
1920	0.006	0.067	0.369	13.1	7.40	12.5	1.41	0.064	0.112	0.165	0.150	0.072	2.93	1920
1921	0.052	0.050	0.092	8.02	6.26	2.24	4.21	1.04	1.66	2.19	1.06	0.225	2.29	1921
1922	0.090	0.039	0.174	4.60	16.4	5.28	3.22	4.43	1.79	0.989	4.31	---	---	1922
1923	---	---	---	---	16.8	5.34	11.4	8.23	3.64	3.53	1.70	---	---	1923
1924	---	---	---	---	22.2	6.13	1.79	1.67	0.606	3.59	---	---	---	1924
1925	---	---	---	17.3	6.58	24.8	9.70	2.00	1.98	5.88	3.40	---	---	1925
1926	---	---	---	---	1.35	4.52	5.54	1.47	1.79	10.4	7.08	---	---	1926
1927	---	---	---	28.3	47.3	14.7	2.70	0.576	2.56	5.53	4.26	---	---	1927
1928	---	---	---	1.42	4.11	25.8	21.1	7.63	2.56	0.751	---	---	---	1928
1929	---	---	---	---	2.68	5.93	3.98	0.285	0.132	0.235	---	---	---	1929
1930	---	---	---	8.07	20.5	7.35	7.97	0.770	0.263	1.61	0.942	---	---	1930
1931	---	---	---	12.7	6.39	1.37	---	---	---	---	---	---	---	1931
MEAN	0.084	0.059	0.289	10.7	11.2	8.10	6.93	2.64	2.33	3.49	2.96	0.338	3.22	MEAN

LOCATION - LAT 50 03 03 N DRAINAGE AREA, 1 540 km²
LONG 096 26 45 W NATURAL FLOW

BROKENHEAD RIVER AT ST. OUENS - STATION NO. 05SA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1912	---	---	---	---	1912
1913	---	---	---	---	1913
1914	---	36.8 CN JUL 18	0 B CN JAN 01 *	149 000	1914
1915	---	23.8 CN MAY 11	0.057 CN AUG 31	105 000	1915
1916	---	47.0 CN APR 19	0.142B CN JAN 01	164 000	1916
1917	---	13.3 CN APR 21	0.028B CN DEC 08	43 100	1917
1918	---	8.86 CN NOV 24	0 B CN FEB 01	51 400	1918
1919	---	44.7 CN JUL 09	0.028B CN FEB 23	136 000	1919
1920	---	27.0 B CN APR 18	0 B CN JAN 06	92 500	1920
1921	---	11.4 B CN APR 13	0.028B CN JAN 01	72 200	1921
1922	---	30.3 CN MAY 20	0.028B CN FEB 03	---	1922
1923	---	95.7 CN APR 24 *	---	---	1923
1924	---	69.7 CN APR 27	---	---	1924
1925	---	36.0 CN JUN 27	---	---	1925
1926	---	---	---	---	1926
1927	---	63.7 CN MAY 14	---	---	1927
1928	---	35.5 CN JUN 23	---	---	1928
1929	---	---	---	---	1929
1930	---	43.6 CN MAY 16	---	---	1930
1931	---	26.4 CN APR 11	---	---	1931
				102 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BROCKENHEAD RIVER NEAR BEAUSEJOUR - STATION NO. 05BA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1942	----	----	----	----	----	3.45	0.311	0.172	0.634	0.419	----	----	----	1942
1943	----	----	----	9.77	6.89	17.1	7.90	0.808	0.320	0.246	----	----	----	1943
1944	----	----	----	2.43	1.60	14.2	4.58	4.37	18.0	3.69	9.50	----	----	1944
1945	----	----	----	27.3	14.8	3.68	2.29	0.222	3.24	4.06	----	----	----	1945
1946	----	----	----	10.3	4.21	0.789	0.595	0.045	0.179	1.15	----	----	----	1946
1947	----	----	----	----	17.7	4.58	1.39	4.23	1.07	3.43	----	----	----	1947
1948	----	----	----	15.3	15.6	0.999	0.37	2.60	0.351	0.089	----	----	----	1948
1949	----	----	----	8.57	5.87	1.61	0.318	0.610	0.309	4.96	----	----	----	1949
1950	----	----	----	15.2	51.4	9.97	4.17	0.721	3.01	6.69	----	----	----	1950
1951	----	----	----	9.53	8.49	4.98	0.774	0.313	0.997	0.863	----	----	----	1951
1952	----	----	----	1.51	0.142	0.246	0.530	0.048	0.008	0.057	----	----	----	1952
1953	----	----	----	3.17	1.25	5.76	6.69	0.948	0.848	0.493	----	----	----	1953
1954	----	----	----	5.47	11.9	14.2	4.68	0.510	5.01	9.65	5.93	----	----	1954
1955	----	----	----	30.1	10.8	7.58	1.99	0.135	0.023	0.312	----	----	----	1955
1956	----	----	0	8.42	12.5	5.00	2.36	0.796	4.81	2.12	----	----	----	1956
1957	----	----	3.79	15.8	11.4	10.3	5.53	0.994	0.395	0.242	0.286	0.091	----	1957
1958	0.041	0.028	0.276	0.917	0.250	0.052	6.06	1.43	0.209	0.354	0.425	0.281	0.872	1958
1959	0.125	0.015	0.009	14.9	18.6	27.8	6.19	5.92	13.2	28.1	13.0	1.10	10.8	1959
1960	0.053	0.031	1.72	37.4	13.7	4.98	1.80	0.544	0.248	0.177	0.673	0.215	5.10	1960
1961	0.003	0.024	1.20	3.96	3.77	0.424	0.099	0.211	0.062	0.144	0.047	0.036	0.835	1961
1962	0.028	0.014	0.040	7.35	14.5	11.3	9.69	13.5	3.29	1.18	1.42	0.750	5.23	1962
1963	0.087	0.023	2.60	15.3	10.0	19.3	8.39	1.74	0.364	0.142	0.210	0.099	4.88	1963
1964	0.007	0	0	9.69	14.4	5.45	2.02	0.401	0.961	2.23	0.831	0.174	3.01	1964
1965	0.104	0.066	0.033	13.1	10.7	9.12	7.79	1.21	2.34	2.87	2.36	1.60	4.28	1965
1966	0.185	0.157	0.600	37.8	33.8	14.3	19.4	0.854	3.52	2.37	2.25	0.196	9.63	1966
1967	0.443	0.319	1.50	32.7	17.9	2.64	1.03	0.601	0.053	0.042	5.12	----	----	1967
1968	----	----	----	3.59	5.74	9.09	4.19	5.05	8.40	3.44	2.01	----	----	1968
1969	----	----	0.178	17.7	8.72	8.78	4.19	1.08	0.488	1.52	0.724	0.512	----	1969
1970	0.227	0.084	0.032	12.7	24.1	23.2	3.24	0.379	0.504	0.739	3.87	0.104	5.76	1970
1971	0.029	0.020	0.014	17.1	7.60	2.87	1.04	0.486	0.101	1.19	1.74	0.286	2.70	1971
1972	0.104	0.085	0.307	11.9	6.33	1.95	0.191	0.161	0.448	1.08	0.786	0.092	1.94	1972
1973	0.071	0.073	3.31	2.46	2.14	11.7	4.61	2.14	8.78	14.0	3.89	1.69	4.59	1973
1974	0.393	0.226	0.207	54.1	53.7	14.1	0.422	0.071	0.102	0.208	0.185	0.088	10.3	1974
1975	0.031	0.060	0.133	5.27	6.60	9.97	4.41	0.770	0.760	0.753	0.702	0.154	2.47	1975
1976	0.119	0.097	0.091	13.0	4.63	4.19	1.75	0.098	0.022	0.036	0.030	0.017	2.16	1976
1977	0.034	0.015	0.038	0.686	0.171	1.32	1.40	0.616	10.8	6.48	1.86	0.430	1.99	1977
1978	0.188	0.159	0.358	28.7	15.4	4.91	2.95	0.380	0.081	0.114	0.118	0.080	4.46	1978
1979	0.057	0.054	0.094	17.0	23.4	12.3	0.690	0.080	0.638	0.161	0.274	0.152	4.58	1979
1980	0.093	0.071	0.100	7.66	1.41	0.145	0.048	0.060	0.070	0.234	0.355	0.099	0.854	1980
1981	0.024	0.133	0.952	0.940	0.252	0.630	0.743	0.072	1.01	2.90	1.73	0.313	0.811	1981
1982	0.068	0.042	0.383	8.24	3.98	5.90	3.17	1.51	0.230	0.271	1.03	0.696	2.28	1982
1983	0.123	0.012	0.869	11.7	4.53	3.17	1.97	0.072	0.021	0.031	0.233	0.083	1.90	1983
1984	0.008	0.015	0.454	1.08	0.336	11.3	2.98	0.354	0.021	0.462	0.526	0.131	1.46	1984
1985	0.036	0.046	1.60	3.27	2.84	1.08	0.976	0.583	0.617	0.848	0.640	0.078	1.07	1985
1986	0.065	0.112	2.53	14.8	23.7	1.86	0.740	0.605	0.190	0.878	0.498	0.386	3.99	1986
1987	0.179	0.165	3.04	12.7	1.91	0.585	0.339	0.944	0.140	0.166	0.283	0.211	1.72	1987
1988	0.062	0.034	0.117	1.85	0.177	0.442	0.383	0.082	0.047	0.029	0.251R	0.147R	0.297R	1988
1989	0.110	0.082	0.094	3.79	3.34	7.10	4.50	0.706	0.200	0.048	0.109	0.077	1.68	1989
1990	0.074	0.085	0.966	2.46	1.98	13.8	3.83	0.244	0.011	0.039	0.084	0.071	1.96	1990
MEAN	0.102	0.076	0.813	12.5	10.6	7.24	3.22	1.24	1.99	2.32	1.64 R	0.327R	3.45 R	MEAN

LOCATION - LAT 50 05 25 N LONG 096 25 46 W

DRAINAGE AREA, 1 610 km²

NATURAL FLOW

R - REVISED SINCE JAN 01 1989

BROKENHEAD RIVER NEAR BEAUSEJOUR - STATION NO. 05SA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1942	---	---	---	---	1942
1943	---	---	---	---	1943
1944	---	31.1 B CN APR 09 35.7 CN SEP 08	0 B CN APR 01 *	---	1944
1945	---	53.2 CN MAR 27	---	---	1945
1946	---	27.7 B CN MAR 24	---	---	1946
1947	---	26.1 B CN APR 14	---	---	1947
1948	---	39.4 CN APR 29	---	---	1948
1949	---	22.1 CN APR 12	---	---	1949
1950	---	99.4 CN MAY 11	---	---	1950
1951	---	13.8 B CN APR 07	---	---	1951
1952	---	3.65B CN APR 11	0 CN MAR 24	---	1952
1953	---	13.4 CN JUL 05	---	---	1953
1954	---	34.0 CN SEP 29	---	---	1954
1955	---	74.5 CN APR 08	0 CN SEP 04	---	1955
1956	---	20.4 B CN APR 23	0 B CN MAR 01	---	1956
1957	---	30.9 CN APR 25	---	---	1957
1958	---	11.5 CN JUL 25	0.028B CN JAN 15	27 500	1958
1959	---	60.6 CN JUN 11	0 B CN FEB 16	340 000	1959
1960	---	82.7 CN APR 16	0 B CN FEB 12	161 000	1960
1961	---	7.08 CN MAY 02	0 B CN JAN 05	26 300	1961
1962	---	45.3 CN MAY 27	0.014B CN FEB 11	165 000	1962
1963	---	39.9 B CN APR 08	0.020B CN FEB 16	154 000	1963
1964	---	36.2 B CN APR 19	0 B CN JAN 11	95 300	1964
1965	---	30.3 B CN APR 14	0.017B CN MAR 26	135 000	1965
1966	---	51.5 CN APR 15	0.017B CN JAN 28	304 000	1966
1967	---	47.0 CN APR 22	---	---	1967
1968	---	17.4 CN JUN 15	---	---	1968
1969	38.2 AT 05:58 CST CN APR 12	36.5 CN APR 13	---	---	1969
1970	46.4 AT 22:16 CST CN MAY 30	46.2 CN MAY 30	0 B CN FEB 15	182 000	1970
1971	44.7 AT 08:51 CST CN APR 09	17.7 CN APR 11	0.011B CN MAR 21	85 100	1971
1972	24.3 B AT 22:09 CST CN APR 16	22.5 B CN APR 16	0.057 CN SEP 02	61 300	1972
1973	41.9 AT 20:22 CST CN JUN 20	37.7 CN JUN 21	0.060B CN JAN 05	145 000	1973
1974	---	183 A CN APR 23 *	0.045B CN DEC 31	326 000	1974
1975	51.0 AT 07:47 CST CN JUN 23	45.9 CN JUN 23	0.021B CN JAN 21	77 900	1975
1976	---	21.8 CN APR 19	0.014B CN DEC 11	68 300	1976
1977	---	19.0 CN SEP 10	0 B CN MAR 10	62 700	1977
1978	---	54.9 B CN APR 16	0.034 CN SEP 11	141 000	1978
1979	73.0 B AT 16:20 CST CN APR 19 *	65.3 B CN APR 19	0.029 CN AUG 05	144 000	1979
1980	22.0 AT 01:30 CST CN APR 08	18.9 B CN APR 08	0.010 CN JUL 30	27 000	1980
1981	3.91 AT 21:59 CST CN OCT 29	3.70B CN APR 03	0.001B CN JAN 04	25 600	1981
1982	23.6 B AT 08:11 CST CN APR 17	19.7 B CN APR 17	0 B CN MAR 14	72 000	1982
1983	27.7 AT 23:29 CST CN APR 11	20.5 B CN APR 11	0.001B CN JAN 14	59 800	1983
1984	22.7 AT 03:20 CST CN JUN 20	22.4 CN JUN 20	0 B CN JAN 18	46 200	1984
1985	9.69B AT 06:29 CST CN MAR 25	8.12B CN MAR 25	0.004B CN JAN 10	33 600	1985
1986	42.0 AT 01:44 CST CN MAY 02	40.8 CN MAY 02	0.002B CN MAR 16	123 000	1986
1987	20.3 AT 02:29 CST CN APR 08	18.9 B CN APR 06	0.023 CN JUL 08	54 200	1987
1988	6.26B AT 01:42 CST CN APR 04	5.38B CN APR 04	0.013 CN AUG 11	9 390	1988
1989	11.2 AT 14:57 CST CN JUN 17	10.9 CN JUN 17	0.016 CN OCT 07	53 000	1989
1990	23.6 AT 17:26 CST CN JUN 12	22.9 CN JUN 12	0.007 CN SEP 16	62 000	1990
				109 000	MEAN

A - MANUAL GAUGE
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
(SEE REFERENCE INDEX)

BROKENHEAD RIVER NEAR VIVIAN - STATION NO. 05SA004

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	17.3	6.29	2.31	0.913	0.042	0.026	0.024	---	---	---	1960
1961	---	---	0.503	1.31	1.42	0.072	0.003	0.002	0.139	0.218	---	---	0.438	1961
1962	---	---	0.006	1.04	3.80	4.39	1.11	6.01	1.30	0.528	---	---	2.52	1962
1963	---	---	0.943	4.76	3.33	6.32	1.83	0.570	0.069	0.301	---	---	2.50	1963
1964	---	---	0	3.97	5.99	2.31	1.10	0.129	0.364	1.03	---	---	1.86	1964
1965	---	---	0	5.96	4.28	3.97	3.43	0.334	0.816	0.999	---	---	2.46	1965
1966	---	---	0.269	15.6	13.0	7.15	9.90	0.265	1.82	0.893	---	---	6.09	1966
1967	---	---	0.239	16.5	7.46	0.657	0.027	0.016	0	0	---	---	3.08	1967
1968	---	---	0.331	1.32	1.29	2.90	0.769	1.08	2.45	1.38	---	---	1.43	1968
1969	---	---	0	7.63	5.09	4.17	1.30	0.137	0.102	0.245	---	---	2.31	1969
1970	---	---	0	4.88	8.48	7.68	0.641	0.108	0.205	0.102	---	---	2.74	1970
1971	---	---	0.023	5.49	2.31	0.496	0.147	0.010	0.151	0.455	---	---	1.10	1971
1972	---	---	0.008	3.00	2.29	0.213	0.011	0.009	0.042	0.198	---	---	0.999	1972
1973	---	---	1.23	0.361	0.402	1.79	0.815	0.291	3.02	4.20	---	---	1.64	1973
1974	---	---	0	21.9	21.7	6.61	0.068	0.001	0	0	---	---	6.25	1974
1975	---	---	0	1.65	1.41	2.74	2.00	0.394	0.163	0.107	---	---	1.18	1975
1976	---	---	0.005	5.38	1.91	2.36	1.35	0.070	0	0	---	---	1.37	1976
1977	---	---	0	0.065	0.067	0.224	0.216	0.051	2.87	4.61	---	---	0.758	1977
1978	---	---	0.004	11.1	5.87	2.08	0.112	0	0	0	---	---	2.40	1978
1979	---	---	0	5.02	9.16	5.02	0.155	0.055	0.147	0.068	---	---	2.44	1979
1980	---	---	0.005	2.28	0.255	0.006	0	0	0	0.027	---	---	0.317	1980
1981	---	---	0.057	0.089	0.006	0.015	0.075	0	0.070	0.570	---	---	0.111	1981
1982	---	---	0.003	3.41	1.23	1.78	0.761	0.637	0.072	1.07	---	---	1.12	1982
1983	---	---	0.369	5.50	1.19	0.837	0.657	0.034	0	0.009	---	---	1.06	1983
1984	---	---	0.032	0.431	0.043	5.09	1.11	0.014	0	0.052	---	---	0.835	1984
1985	---	---	0.335	1.09	0.686	0.305	0.407	0.165	0.161	0.234	---	---	0.446	1985
1986	---	---	0.401	5.81	10.1	0.876	0.310	0.118	0.030	0.085	---	---	2.21	1986
1987	---	---	0.502	4.57	0.683	0.114	0.052	0.406	0.038	0.060	---	---	0.794	1987
1988	---	---	0.002	0.755	0.380	0.230	0.226	0.028	0	0.099	---	---	0.250	1988
1989	---	---	0	0.885	1.07	2.61	2.07	0.026	0.001	0.001	---	---	0.829	1989
1990	---	---	0	0.525	0.538	5.33	2.29	0.034	0	0	---	---	1.08	1990
MEAN	---	---	0.178	5.22	3.95	2.62	1.22	0.356	0.453	0.534	---	---	1.75	MEAN

LOCATION - LAT 49 53 07 N DRAINAGE AREA, 657 km²
LONG 096 21 57 W NATURAL FLOW

BROKENHEAD RIVER NEAR VIVIAN - STATION NO. 05SA004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1960	---	40.8 ON APR 15	0 ON AUG 15 *	---	1960
1961	---	2.79 B ON MAR 30	0 B ON MAR 01	9 270	1961
1962	---	11.3 ON MAY 27	0.006B ON MAR 01	33 500	1962
1963	---	9.12 ON JUL 07	0 B ON MAR 01	32 900	1963
1964	---	11.4 ON APR 17	0 B ON MAR 01	39 300	1964
1965	---	11.8 ON APR 16	0 ON MAR 01	32 100	1965
1966	---	21.9 ON APR 13	0.017 ON AUG 25	129 000	1966
1967	---	26.4 ON APR 24	0 ON JUL 19	65 300	1967
1968	---	4.59 ON JUN 15	0 ON MAR 01	30 300	1968
1969	---	32.3 ON APR 14	0 B ON MAR 01	49 000	1969
1970	13.2 AT 16:15 CST ON MAY 30	13.2 ON MAY 30	0 B ON MAR 01	58 100	1970
1971	11.3 AT 16:07 CST ON APR 08	9.03 ON APR 13	0 B ON MAR 01	23 300	1971
1972	10.6 AT 14:28 CST ON APR 18	10.5 ON APR 18	0 B ON MAR 01	21 100	1972
1973	8.07 AT 10:05 CST ON OCT 15	8.01 ON OCT 15	0 B ON MAR 01	34 700	1973
1974	75.3 AT 06:51 CST ON APR 24 *	74.5 ON APR 24 *	0 B ON MAR 01	132 000	1974
1975	6.00 AT 14:01 CST ON JUL 01	5.95 ON JUL 01	0 B ON MAR 01	24 900	1975
1976	8.18 AT 21:33 CST ON APR 18	8.13 ON APR 19	0 B ON AUG 25	29 000	1976
1977	4.53 AT 08:48 CST ON SEP 14	4.50 ON SEP 28	0 B ON MAR 01	16 100	1977
1978	24.5 AT 20:43 CST ON APR 22	23.7 ON APR 22	0 B ON MAR 01	50 700	1978
1979	14.4 AT 06:34 CST ON MAY 02	14.3 ON MAY 02	0 B ON MAR 01	51 700	1979
1980	---	6.02 A ON APR 11	0 ON JUN 09	6 700	1980
1981	0.837 AT 00:01 CST ON OCT 31	0.822 ON OCT 31	0 B ON MAR 01	2 350	1981
1982	7.41 AT 14:20 CST ON APR 18	7.36 ON APR 18	0 B ON MAR 01	23 800	1982
1983	10.2 B AT 09:01 CST ON APR 07	9.66 ON APR 11	0 B ON MAR 01	24 500	1983
1984	12.9 AT 01:23 CST ON JUN 19	12.6 ON JUN 19	0 B ON MAR 01	17 700	1984
1985	4.30 B AT 00:02 CST ON APR 03	3.71 B ON APR 02	0 B ON MAR 01	9 450	1985
1986	15.8 AT 12:38 CST ON MAY 06	15.7 ON MAY 06	0 B ON MAR 01	46 900	1986
1987	8.90 AT 14:07 CST ON APR 12	6.87 ON APR 12	0.002B ON MAR 01	16 800	1987
1988	---	1.80 B ON APR 10	0 B ON MAR 01	5 300	1988
1989	4.32 AT 15:47 CST ON JUL 07	4.30 ON JUL 07	0 B ON MAR 01	17 600	1989
1990	8.59 AT 19:32 CST ON JUN 13	8.44 ON JUN 13	0 B ON MAR 01	22 800	1990
				37 100	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BUFFALO CREEK NEAR ALTONA - STATION NO. 05OC025

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0	0.058	0.090	0.076	0	0	0.019	0.012	---	---	0.032	1977
1978	---	---	0.840	5.67	0.273	0.505	0.001	0	0.041	0.073	---	---	0.912	1978
1979	---	---	0	17.2	1.39	0.364	0.106	0.014	0.006	0	---	---	2.35	1979
1980	---	---	0.041	0.400	0.013	0	0.015	0.016	0.013	0.010	---	---	0.063	1980
1981	---	---	0.299	0.044	0.031	0.028	0	0	0	0	---	---	0.051	1981
1982	---	---	0.132	2.17	0.086	0.140	0.004	0	0	0.138	---	---	0.328	1982
1983	---	---	0.089	2.21	0.054	0.029	0.008	0	0	0	---	---	0.294	1983
1984	---	---	0.043	0.048	0.029	0.009	0	0	0	0	---	---	0.016	1984
1985	---	---	1.53	0.176	0	0	0.035	0.247	0.232	0.120	---	---	0.294	1985
1986	---	---	1.61	1.07	0.360	0.001	0	0.013	0	0	---	---	0.383	1986
1987	---	---	0.169	4.96	0.002	0	0	0	0	0	---	---	0.629	1987
MEAN	---	---	0.432	3.09	0.212	0.105	0.015	0.026	0.028	0.032	---	---	0.487	MEAN

LOCATION - LAT 49 05 28 N DRAINAGE AREA, 453 km²
LONG 097 36 35 W NATURAL FLOW

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "BUFFALO LAKE CHANNEL NEAR ALTONA"

BUFFALO CREEK NEAR ALTONA - STATION NO. 05OC025

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	0.570RB ON APR 03	0B ON MAR 01 *	672	1977
1978	---	31.1 RB ON APR 09	0B ON MAR 01	19 300	1978
1979	---	127 A ON APR 20 *	0B ON MAR 01	49 700	1979
1980	---	2.50 B ON APR 02	0B ON MAR 01	1 330	1980
1981	---	0.866B ON MAR 14	0 ON APR 15	1 070	1981
1982	---	17.0 B ON APR 13	0B ON MAR 01	6 950	1982
1983	13.4B AT 21:20 CST ON APR 04	11.4 B ON APR 05	0B ON MAR 01	6 220	1983
1984	---	0.444B ON MAR 28	0B ON MAR 01	343	1984
1985	13.0B AT 17:00 CST ON MAR 19	11.1 B ON MAR 19	0B ON MAR 01	6 220	1985
1986	---	12.1 B ON MAR 25	0B ON MAR 01	8 100	1986
1987	41.5 AT 10:58 CST ON APR 05 *	35.1 B ON APR 05	0B ON MAR 01	13 300	1987
				10 300	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1989

BUFFALO CREEK NEAR ROSENFELD - STATION NO. 05OC019

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	9.82	1.06	0.065	0.309	0.002	0	0	---	---	1.38	1969
1970	---	---	0	19.6	5.72	10.4	---	---	---	---	---	---	---	1970
1971	---	---	0	17.5	0.205	0.193	0.041	0	0	0	---	---	2.19	1971
1972	---	---	1.28	4.30	0.075	0.001	0	0	0.001	0	---	---	0.699	1972
1973	---	---	0.493	0.036	0	1.65	0.020	0.002	0.570	0.340	---	---	0.385	1973
1974	---	---	0	27.5	11.1	0.375	0	0	0	0	---	---	4.82	1974
1975	---	---	0	2.54	0.808	0.127	0.054	0	0	0	---	---	0.436	1975
1976	---	---	0	10.9	0.057	0.968	0.014	0	0	0	---	---	1.46	1976
1977	---	---	0	0.072	0.295	0.154	0.013	0.005	0.057	0.065	---	---	0.071	1977
1978	---	---	0.053	7.91	0.277	0.561	0.040	0	0.175	0.025	---	---	1.11	1978
1979	---	---	0	35.6	3.49	0.836	0.228	0.017	0.001	0.016	---	---	4.93	1979
1980	---	---	0	1.69	0.005	0	0.098	0.001	0	0.006	---	---	0.221	1980
1981	---	---	1.06	0.152	0.109	0.032	0	0.002	0.005	0.109	---	---	0.185	1981
1982	---	---	0.389	5.76	0.080	0.179	0.070	0.005	0	0.085	---	---	0.807	1982
1983	---	---	1.96	7.37	0.080	0.092	0.032	0	0	0	---	---	1.18	1983
1984	---	---	0.114	0.295	0.018	0.020	0	0	0	0.009	---	---	0.056	1984
1985	---	---	4.09	0.408	0.043	0.029	0.028	0.285	0.147	0.106	---	---	0.647	1985
1986	---	---	3.70	1.83	0.961	0.023	0.010	0.001	0	0.004	---	---	0.819	1986
1987	---	---	0.492	11.3	0.069	0.009	0.022	0.003	0	0.015	---	---	1.46	1987
1988	---	---	0.008	0.440	0.041	0.013	0	0	0	0.002	---	---	0.062	1988
1989	---	---	0	1.61	0.149	0.024	0	0	0	0.016	---	---	0.221	1989
1990	---	---	0.168	2.52	0.083	0.521	0.188	0.009	0	0.017	---	---	0.431	1990
MEAN	---	---	0.628	7.69	1.12	0.740	0.056	0.016	0.046	0.039	---	---	1.12	MEAN

LOCATION - LAT 49 11 30 N DRAINAGE AREA, 776 km²
LONG 097 24 00 W NATURAL FLOW

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "PLUM RIVER NEAR ROSENFELD"

BUFFALO CREEK NEAR ROSENFELD - STATION NO. 05OC019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	53.8 B ON APR 11	OB ON MAR 01 *	29 300	1969
1970	---	76.7 B ON APR 18	OB ON MAR 01	---	1970
1971	166 AT 01:15 CST ON APR 12	152 B ON APR 11	OB ON MAR 01	46 400	1971
1972	---	15.8 B ON APR 14	OB ON MAR 01	14 800	1972
1973	20.4 AT 06:34 CST ON JUN 18	17.3 ON JUN 18	OB ON MAR 01	8 150	1973
1974	---	139 B ON APR 16	OB ON MAR 01	102 000	1974
1975	---	8.75B ON APR 17	OB ON MAR 01	9 220	1975
1976	79.9 B AT 15:41 CST ON APR 05	71.6 B ON APR 05	OB ON MAR 01	30 900	1976
1977	7.53 AT 01:40 CST ON MAY 30	4.47 ON MAY 30	OB ON MAR 01	1 510	1977
1978	---	39.9 B ON APR 09	OB ON MAR 01	23 500	1978
1979	217 AT 10:15 CST ON APR 20 *	197 ON APR 20 *	OB ON MAR 01	104 000	1979
1980	9.35B AT 13:15 CST ON APR 04	7.76B ON APR 05	OB ON MAR 01	4 680	1980
1981	---	2.50B ON MAR 14	0 ON MAY 01	3 920	1981
1982	---	32.7 B ON APR 14	OB ON MAR 01	17 100	1982
1983	32.2 B AT 17:16 CST ON APR 06	28.5 B ON APR 06	OB ON MAR 01	24 900	1983
1984	2.29B AT 15:10 CST ON MAR 31	1.67B ON MAR 31	OB ON MAR 01	1 190	1984
1985	30.8 B AT 17:35 CST ON MAR 19	27.5 B ON MAR 19	OB ON MAR 01	13 700	1985
1986	35.3 B AT 13:00 CST ON MAR 28	31.4 B ON MAR 28	OB ON MAR 01	17 300	1986
1987	81.1 AT 17:00 CST ON APR 05	68.0 B ON APR 05	OB ON MAR 01	30 900	1987
1988	3.45B AT 14:13 CST ON APR 05	2.34B ON APR 05	OB ON MAR 01	1 310	1988
1989	---	11.5 B ON APR 20	OB ON MAR 01	4 680	1989
1990	14.2 AT 17:48 CST ON APR 02	12.2 B ON APR 03	OB ON MAR 01	9 120	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		23 700	MEAN

BURNT LAKE DRAIN NEAR DEERHORN - STATION NO. 05LN002

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	1.53	0.961	0.365	0.092	0.042	0.003	0	---	---	0.709	1960
1961	---	---	0.048	0.234	0.106	0	0	0	0	0	---	---	0.097	1961
1962	---	---	0	0.109	0.071	0.064	0	0.013	0.006	0.001	---	---	0.060	1962
1963	---	---	0.036	1.64	0.555	4.81	1.57	0.571	0.057	0	---	---	1.74	1963
1964	---	---	0	0.059	0.083	0.002	0	0	0	0	---	---	0.036	1964
1965	---	---	0	0.554	1.26	0.729	0.111	0.037	0.018	0.006	---	---	0.636	1965
1966	---	---	0.286	1.53	1.02	0.086	0.006	0	0	0	---	---	0.727	1966
1967	---	---	0	0.695	0.392	0.013	0.009	0	0	0	---	---	0.274	1967
1968	---	---	0	0.027	0.020	0.032	0.004	0.053	0.503	0.073	---	---	0.019	1968
1969	---	---	0	1.06	0.246	0.050	0.035	0.090	0.007	0.010	---	---	0.335	1969
1970	---	---	0	0.586	1.09	0.171	0.047	0.001	0	0	---	---	0.462	1970
1971	---	---	0	0.261	0.093	0.007	0.006	0	0	0	---	---	0.090	1971
1972	---	---	0	0.273	0.072	0.006	0.001	0.001	0	0	---	---	0.047	1972
1973	---	---	0.016	0.008	0.005	0.070	---	0.021	0.011	0.027	---	---	0.024	1973
1974	---	---	0	2.09	4.07	0.944	---	0.051	0.020	0.011	---	---	1.78	1974
1975	---	---	0	0.101	---	---	---	2.29	2.05	0.765	---	---	---	1975
1976	---	---	0.144	8.50	2.45	0.560	---	0.034	0.005	0.005	---	---	2.89	1976
1977	---	---	0.003	0.029	0.055	0.049	---	---	---	---	---	---	0.034	1977
1978	---	---	0	0.955	0.311	0.066	---	---	---	---	---	---	0.330	1978
1979	---	---	0	0.805	3.74	1.54	---	---	---	---	---	---	1.53	1979
1980	---	---	0	0.280	0.090	0.016	---	---	---	---	---	---	0.095	1980
1981	---	---	0.031	0.199	0.061	0.032	---	---	---	---	---	---	0.060	1981
1982	---	---	0.007	0.357	0.250	0.148	---	---	---	---	---	---	0.190	1982
1983	---	---	0.001	0.998	0.238	0.078	---	---	---	---	---	---	0.325	1983
1984	---	---	0	0.002	0.009	---	---	---	---	---	---	---	---	1984
1985	---	---	0.003	0.318	0.011	0.007	---	---	---	---	---	---	0.084	1985
1986	---	---	0.083	1.20	4.74	1.03	---	---	---	---	---	---	2.27	1986
1987	---	---	0.006	0.749	0.100	0.011	---	---	---	---	---	---	0.214	1987
MEAN	---	---	0.024	0.970	0.818	0.419	0.145	0.188	0.158	0.053	---	---	0.581	MEAN

LOCATION - LAT 50 45 39 N DRAINAGE AREA, 334 km^2
LONG 098 02 27 W NATURAL FLOW

REMARKS - AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

BURNT LAKE DRAIN NEAR DEERHORN - STATION NO. 05LN002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	4.30 ON APR 19	0 B ON MAR 01 *	7 480	1960
1961	---	0.368 ON MAR 30	0 B ON MAR 01	1 020	1961
1962	---	0.685 ON APR 22	0 B ON MAR 01	637	1962
1963	---	12.3 ON JUN 12	0 B ON MAR 01	18 300	1963
1964	---	0.266B ON APR 20	0 B ON MAR 01	380	1964
1965	---	4.42 ON MAY 28	0 B ON MAR 01	6 700	1965
1966	---	4.64 B ON APR 01	0 B ON MAR 01	7 670	1966
1967	---	2.63 B ON APR 17	0 B ON MAR 01	2 890	1967
1968	---	0.093 ON APR 12	0 B ON MAR 01	205	1968
1969	---	2.94 ON APR 17	0 B ON MAR 01	3 530	1969
1970	---	2.41 B ON APR 19	0 B ON MAR 01	4 870	1970
1971	---	0.719 ON APR 19	0 B ON MAR 01	946	1971
1972	---	1.16 ON APR 18	0 B ON MAR 01	917	1972
1973	---	0.193 ON JUN 21	0 B ON MAR 01	247	1973
1974	---	5.55 ON MAY 03	0 B ON MAR 01	18 800	1974
1975	---	---	---	---	1975
1976	---	13.0 ON APR 20 *	0.144B ON MAR 01	30 400	1976
1977	---	0.176 ON MAY 19	0 B ON MAR 01	356	1977
1978	---	0.29 ON APR 18	0 B ON MAR 01	3 480	1978
1979	---	5.35 ON MAY 03	0 B ON MAR 01	16 100	1979
1980	---	0.800 ON APR 18	0 B ON MAR 01	1 010	1980
1981	0.321 AT 00:00 CST ON APR 08	0.312E ON APR 04	0 B ON MAR 01	847	1981
1982	---	1.03 B ON APR 16	0 B ON MAR 01	2 000	1982
1983	---	1.93 B ON APR 06	0 B ON MAR 01	3 430	1983
1984	---	---	0 B ON MAR 01	---	1984
1985	1.12 B AT 12:50 CST ON APR 04	0.850B ON APR 04	0 B ON MAR 01	883	1985
1986	8.65 AT 10:49 CST ON MAY 07 *	8.58 ON MAY 07	0 B ON MAR 01	23 900	1986
1987	---	3.25 B ON APR 06	0 B ON MAR 01	2 250	1987
				6 130	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BURNTWOOD RIVER ABOVE LEAF RAPIDS - STATION NO. 05TE002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1985	---	---	---	---	---	---	---	---	30.5	25.2	17.3	9.93R	---	1985
1986	7.81	6.27	4.86	14.8	104	71.1	68.2	68.2	31.8	23.7	14.6	10.1	35.7	1986
1987	8.06	6.99	5.44	29.4	36.2	38.1	30.1	21.2	20.1	16.6	11.4	6.24	19.4	1987
1988	4.21	3.81	3.72	3.84	54.4	30.0	18.7	10.7	7.98	8.08	6.62	5.31	13.2	1988
1989	4.05	3.05	2.61	2.82	30.7	17.8	12.9	9.72	22.9	19.5	13.8	7.48	12.3	1989
1990	5.54	5.12	4.66	7.43	42.3	32.3	17.8	8.66	3.75	3.90	3.88	3.51	11.6	1990
MEAN	5.93	5.05	4.26	11.7	53.9	37.9	29.5	23.7	19.5	16.2	11.3	7.10R	18.4 R	MEAN

LOCATION - LAT 55 30 00 N LONG 099 13 20 W
DRAINAGE AREA, 5 260 km^2
NATURAL FLOW

R - REVISED SINCE JAN 01 1989

BURNTWOOD RIVER ABOVE LEAF RAPIDS - STATION NO. 05TE002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1985	---	---	---	---	1985
1986	172 AT 15:00 CST ON MAY 16 *	172 ON MAY 16 *	4.10B ON APR 04	1 130 000	1986
1987	69.7 AT 19:30 CST ON APR 25	68.6 ON APR 25	4.94B ON DEC 31	611 000	1987
1988	---	85.3B ON MAY 07	3.66B ON APR 16	417 000	1988
1989	54.4 AT 17:10 CST ON MAY 23	54.2 ON MAY 23	2.44B ON APR 21	389 000	1989
1990	53.4 AT 15:25 CST ON MAY 23	53.4 ON MAY 24	2.35 ON OCT 03 *	367 000	1990
				583 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BURNTWOOD RIVER ABOVE THREE POINT LAKE - STATION NO. 05TE001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	9.42	7.11	5.52	27.3	74.7	80.5	58.3	41.3	38.5	30.0	29.4	15.3	34.9	1977
1978	11.8	8.94	6.72	5.73	---	33.8	---	36.8	27.1	68.9	32.5	17.8	---	1978
1979	12.8	8.97	6.34	5.86	69.7	98.4	51.0	---	---	40.6	22.7	12.0	---	1979
1980	9.25	8.06	7.67	24.1	25.3	19.2	17.1	---	74.1	64.4	34.1	19.0	---	1980
1981	14.1	9.73	7.22	5.86	83.7	38.4	30.4	25.3	11.0	22.5	17.9	13.1	24.0	1981
1982	10.7	8.08	6.72	12.3	132	82.2	40.2	30.4	43.0	43.9	27.8	17.1	33.2	1982
1983	8.77	7.58	6.76	17.3	104	70.7	48.5	33.2	38.6	38.5	27.8	17.1	35.1	1983
1984	11.3	8.48	6.92	60.4	78.5	55.2	46.2	32.4	56.8	65.5	42.1	25.5	40.8	1984
1985	15.2	10.7	9.52	49.0	104	104	78.9	---	---	---	---	---	---	1985
MEAN	11.5	8.63	6.91	23.1	84.0	64.7	46.3	33.2	38.7	44.3	28.6	16.3	33.6	MEAN

LOCATION - LAT 55 27 50 N LONG 099 06 00 W
DRAINAGE AREA, 6 660 km^2
NATURAL FLOW

BURNTWOOD RIVER ABOVE THREE POINT LAKE - STATION NO. 05TE001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	131 --- ON MAY 27	130 ON MAY 28	4.96B ON MAR 30	1 100 000	1977
1978	---	85.8 ON OCT 05	4.53B ON APR 21	---	1978
1979	130 AT 20:40 CST ON JUN 02	130 ON JUN 02	4.30B ON APR 21 *	---	1979
1980	---	---	7.59B ON MAR 26	---	1980
1981	160 AT 13:30 CST ON MAY 09	156 ON MAY 09	5.81B ON APR 29	758 000	1981
1982	194 AT 16:10 CST ON MAY 03 *	188 ON MAY 03 *	5.78B ON APR 23	1 050 000	1982
1983	119 AT 01:15 CST ON MAY 22	118 ON MAY 21	6.12B ON APR 19	1 110 000	1983
1984	151 AT 22:38 CST ON APR 21	151 ON APR 22	6.25B ON APR 07	1 290 000	1984
1985	168 AT 18:00 CST ON APR 29	165 ON APR 29	---	---	1985
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 060 000	MEAN

BURNTWOOD RIVER NEAR THOMPSON - STATION NO. 05TG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	---	---	---	63.7	50.3	37.4	---	1957
1958	28.1	21.7	22.3	44.5	132	158	118	88.4	80.7	131	120	75.1	85.4	1958
1959	41.0	32.3	16.1	16.1	213	460	342	204	185	161	119	71.2	156	1959
1960	38.4	27.4	24.5	21.5	141	410	238	107	58.2	32.9	23.6	13.7	94.7	1960
1961	9.45	8.39	7.83	8.52	68.9	158	108	74.2	43.0	32.6	27.7	24.1	47.9	1961
1962	20.0	17.5	15.3	13.1	264	440	268	127	76.4	60.0	48.3	36.7	116	1962
1963	37.5	31.8	28.9	27.4	192	296	190	142	124	120	134	70.7	118	1963
1964	36.0	25.0	21.2	21.4	196	224	119	135	239	222	143	84.5	122	1964
1965	56.0	40.9	28.7	23.8	254	408	279	137	94.7	98.3	86.2	63.8	131	1965
1966	49.6	39.6	28.7	25.8	176	308	180	188	98.9	57.5	28.9	21.8	133	1966
1967	20.2	16.0	16.5	14.5	76.4	296	230	146	66.6	44.0	34.4	29.4	83.2	1967
1968	28.0	23.6	20.1	21.3	191	260	182	119	96.0	167	158	107	115	1968
1969	67.4	36.1	25.1	55.5	156	168	124	79.6	182	369	266	156	141	1969
1970	80.8	53.5	35.8	25.9	139	267	352	205	127	100	152	117	139	1970
1971	67.6	43.4	31.0	44.8	201	227	242	241	185	224	266	191	163	1971
1972	119	80.2	62.7	41.8	257	263	235	175	134	155	128	83.1	145	1972
1973	54.7	39.5	32.1	43.8	167	185	169	133	103	88.8	82.0	70.2	92.7	1973
1974	53.1	40.9	25.2	23.6	183	181	124	65.4	41.9	33.0	25.5	18.6	68.2	1974
1975	16.2	15.6	12.9	13.8	89.4	166	140	104	70.0	88.8	62.1	28.3	67.5	1975
1976	40.1	32.9	25.0	68.0	84.1	146	238	181	163	201	333	352	168	1976
1977	370	369	350	404	485	540	534	570	945	911	953	924	604	1977
1978	877	861	856	691	642	853	913	887	863	966	953	930	858	1978
1979	925	935	927	890	778	902	798	790	822	851	915	894	868	1979
1980	854	866	900	918	859	825	864	878	941	938	939	974	897	1980
1981	981	982	935	944	957	950	1 060	1 060	925	688	667	855	900	1981
1982	583	581	589	588	830	665	694	878	980	1 010	1 010	991	785	1982
1983	934	660	555	543	814	843	912	907	916	971	1 000	987	839	1983
1984	955	939	937	1 050	1 120	1 110	1 060	967	789	835	956	989	976	1984
1985	987	994	950	845	1 040	1 080	1 040	1 060	934	894	943 R	913 R	973 R	1985
1986	840	784	718	707	935	772	728	734	922	1 100	1 040	954	853	1986
1987	948	931	910	907	914	971	1 070	934	767	754	932	1 030	923	1987
1988	1 040	985	882	759	957	841	760	832	926	946	875	834 R	885 R	1988
1989	771	767	765	745	889	794	840	972	956	773	905	961	844	1989
1990	969	986	803	712	874	1 100	868	734	689	695	752	657	819	1990
MEAN	390	372	351	340	463	529	492	449	438	437	444 R	422 R	431 R	MEAN

LOCATION - LAT 55 44 40 N DRAINAGE AREA, 18 500 km²
LONG 097 53 30 W REGULATED SINCE 1973

R - REVISED SINCE JAN 01 1989

REMARKS - DISCHARGE RECORDS FOR 1957-61 WERE PUBLISHED UNDER THE TITLE "BURNTWOOD RIVER AT MANASAN FALLS"

BURNTWOOD RIVER NEAR THOMPSON - STATION NO. 05TG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	168 ON JUN 13	20.4 B ON FEB 13	2 690 000	1958
1959	---	496 ON JUN 19	11.9 B ON APR 08	4 910 000	1959
1960	---	459 ON JUN 08	11.8 E ON DEC 21	2 990 000	1960
1961	---	164E ON JUN 11	7.79E ON MAR 21 *	1 510 000	1961
1962	507 AT 09:00 CST ON MAY 30	504 ON MAY 29	12.6 B ON APR 24	3 660 000	1962
1963	---	331 ON MAY 31	17.8 B ON APR 04	3 710 000	1963
1964	278 AT 17:00 CST ON SEP 22	277 ON SEP 22	16.8 B ON APR 10	3 870 000	1964
1965	450 AT 14:30 CST ON JUN 12	450 ON JUN 12	20.2 ON APR 22	4 140 000	1965
1966	---	578 ON JUN 19	19.9 ON DEC 31	4 210 000	1966
1967	314 AT 16:30 CST ON JUN 13	311E ON JUN 11	14.0 A ON APR 27	2 630 000	1967
1968	---	297 ON MAY 26	18.4 ON APR 03	3 630 000	1968
1969	416 AT 13:00 CST ON OCT 16	416 ON OCT 15	21.3 E ON MAR 29	4 440 000	1969
1970	---	396 ON JUL 08	21.0 ON APR 16	4 370 000	1970
1971	300 AT 05:56 CST ON NOV 07	300 ON NOV 07	24.2 ON APR 14	5 130 000	1971
1972	294 AT 06:41 CST ON MAY 26	289 ON MAY 23	29.7 E ON APR 23	4 580 000	1972
1973	---	196 ON JUN 04	21.0 ON APR 28	2 920 000	1973
1974	220 AT 08:30 CST ON MAY 17	216 ON MAY 17	14.8 ON APR 18	2 150 000	1974
1975	186 AT 06:00 CST ON JUL 02	178 ON JUN 29	10.3 ON APR 12	2 130 000	1975
1976	377 AT 17:30 CST ON DEC 31	374 ON DEC 30	22.5 ON JAN 01	5 320 000	1976
1977	943 AT 12:00 CST ON NOV 16	940 ON NOV 15	340 B ON APR 02	19 000 000	1977
1978	---	980 ON OCT 13	600 B ON APR 29	27 100 000	1978
1979	---	937B ON FEB 15	682 B ON MAY 13	27 400 000	1979
1980	981 AT 21:25 CST ON SEP 28	979 ON SEP 24	769 ON MAY 30	28 300 000	1980
1981	1 130 AT 21:30 CST ON JUL 26	1 120 ON JUL 25	619 B ON DEC 31	28 400 000	1981
1982	1 030 AT 10:04 CST ON SEP 29	1 030 ON SEP 29	575 B ON JAN 19	24 700 000	1982
1983	---	1 020E ON NOV 23	533 B ON APR 19	26 400 000	1983
1984	---	1 320 ON APR 28 *	778 ON SEP 15	30 900 000	1984
1985	1 200 AT 20:30 CST ON JUN 25 *	1 190 ON JUN 25	782 B ON APR 18	30 700 000	1985
1986	1 150 ON MAY 18	1 150 ON MAY 19	680 ON JUL 02	26 900 000	1986
1987	1 090 AT 17:05 CST ON JUL 14	1 090 ON JUL 01	730 ON OCT 10	29 100 000	1987
1988	1 130 AT 02:34 CST ON MAY 10	1 130 ON MAY 10	725 B ON APR 28	28 000 000	1988
1989	1 010 AT 17:00 CST ON SEP 03	1 010 ON SEP 02	704 B ON APR 22	26 600 000	1989
1990	1 140 AT 17:01 CST ON JUN 22	1 130 ON JUN 15	628 B ON DEC 31	25 800 000	1990
				13 600 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

CHURCHILL RIVER ABOVE GRANVILLE FALLS - STATION NO. 06EA006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1949	---	---	---	---	---	---	---	---	---	---	---	---	---	1949
1951	---	---	---	---	---	---	---	1 060	1 020	954	827	705	---	1951
1952	648	633	612	595	617	592	603	612	971	883	595	589	603	1952
1953	615	598	585	572	812	670	670	678	636	628	608	620	607	1953
1954	612	595	578	558	568	742	778	939	1 270	1 230	1 150	1 010	837	1954
1955	841	714	680	704	1 020	1 130	1 090	958	822	726	765	816	856	1955
1956	776	722	668	634	897	794	838	924	819	737	535	535	636	1956
1957	547	551	558	547	694	848	816	880	758	706	673	663	688	1957
1958	665	666	653	647	765	894	926	881	817	879	814	775	796	1958
1959	738	690	644	622	770	1 140	1 420	1 340	1 200	1 070	958	821	953	1959
1960	732	700	688	678	779	1 200	1 480	1 520	1 290	1 140	994	847	1 010	1960
1961	771	715	709	720	862	1 080	1 010	830	691	641	706	690	788	1961
1962	693	708	712	697	964	1 140	1 090	905	833	795	757	726	852	1962
1963	728	743	766	767	912	1 000	1 040	1 080	939	923	840	778	878	1963
1964	736	723	721	781	850	882	719	791	936	1 080	1 010	920	846	1964
1965	863	823	784	764	977	1 120	1 020	953	931	964	972	876	917	1965
1966	798	778	765	813	873	1 010	1 040	917	777	848	806	651	814	1966
1967	835	691	709	699	708	919	947	912	811	976	832	661	751	1967
1968	686	732	767	744	864	938	732	658	669	735	735	706	738	1968
1969	708	732	719	731	850	785	703	644	833	923	839	799	769	1969
1970	729	713	706	702	796	861	1 010	996	873	799	755	737	807	1970
1971	742	683	670	671	663	720	738	1 040	1 240	1 290	1 100	940	854	1971
1972	902	887	871	853	1 110	1 200	1 100	958	832	911	900	854	990	1972
1973	848	844	828	824	940	998	918	878	866	848	838	836	876	1973
1974	815	800	821	849	1 130	1 240	1 420	1 440	1 400	1 310	1 150	1 040	1 120	1974
1975	940	896	932	924	1 120	1 270	1 160	1 140	1 120	1 100	961	814	1 030	1975
1976	790	813	804	811	748	866	958	1 130	1 180	1 060	1 000	847	930	1976
1977	897	879	876	909	1 030	1 190	1 420	1 460	1 370	1 080	918	848	1 070	1977
1978	857	878	860	814	861	881	924	873	853	1 040	1 130	934	914	1978
1979	918	888	903	881	937	1 050	928	776	696	791	909	895	881	1979
1980	903	887	888	905	899	720	693	706	810	---	---	---	---	1980
1981	---	820	777	751	822	762	664	580	---	---	---	---	---	1981
1982	613	595	558	533	683	662	633	527	546	507	496	614	578	1982
1983	649	677	654	634	712	680	640	591	560	859	819	784	690	1983
1984	738	745	733	807	853	781	790	699	650	622	688	722	736	1984
1985	739	730	719	661	904	949	938	842	679R	611R	569R	598R	745R	1985
1986	683	741	750	730	862	903	750	673	745	679	712	758	771	1986
1987	---	---	---	---	923	854	782	745	---	---	---	---	---	1987
1988	757	751	732	720	787	756	638	578	706	708	637	600	697	1988
1989	588	578	610	603	705	762	689	646	662	651	654	667	655	1989
1990	---	---	---	705	785	766	637	594	554	522	485	511	---	1990
MEAN	747	736	726	721	838	915	904	881	861R	851R	809R	766R	819R	MEAN

LOCATION - LAT 56 09 00 N LONG 100 27 30 W

DRAINAGE AREA 230 000 km²

REGULATED SINCE 1928

R - REVISED SINCE JAN 01 1989

CHURCHILL RIVER ABOVE GRANVILLE FALLS - STATION NO. 06EA006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1949	---	1 700 CN AUG 29 *	---	---	1949
1950		---	---	---	1950
1951	---	---	---	---	1951
1952	---	648E CN JAN 01	564 CN SEP 14	19 100 000	1952
1953	---	711 CN AUG 06	532E CN APR 01	19 100 000	1953
1954	---	1 290E CN SEP 07	558E CN APR 01	26 400 000	1954
1955	---	1 170 CN MAY 29	680E CN MAR 01	27 000 000	1955
1956	---	810E CN JUN 01	521E CN SEP 27	20 100 000	1956
1957	---	903 CN AUG 14	547E CN JAN 01	21 700 000	1957
1958	---	934E CN JUL 11	637E CN APR 11	24 800 000	1958
1959	1 460 AT 18:00 CST ON JUL 15	1 450 CN JUL 14	620E CN APR 13	30 100 000	1959
1960	---	1 560E CN AUG 01	668E CN MAY 01	31 800 000	1960
1961	---	1 100E CN JUN 11	643 CN SEP 27	24 900 000	1961
1962	---	1 370E CN JUN 01	695E CN JAN 01	26 900 000	1962
1963	---	1 180 CN JUL 29	725 CN JAN 01	27 700 000	1963
1964	---	1 100 CN OCT 10	685 CN JUL 31	26 700 000	1964
1965	---	1 160E CN JUN 01	759E CN APR 21	28 900 000	1965
1966	---	1 110 CN JUL 01	646 CN NOV 24	25 700 000	1966
1967	---	968E CN JUN 19	629 CN NOV 03	23 700 000	1967
1968	---	898E CN JUN 03	637 CN AUG 24	23 300 000	1968
1969	---	934 CN OCT 13	637 CN AUG 12	24 200 000	1969
1970	---	1 060 CN JUL 21	697 CN MAR 25	25 500 000	1970
1971	1 340 AT 01:13 CST ON OCT 13	1 330 CN OCT 12	501 CN APR 16	26 900 000	1971
1972	1 220 AT 20:25 CST ON JUN 16	1 220 CN JUN 17	824 CN SEP 21	30 000 000	1972
1973	1 020 AT 19:00 CST ON MAY 23	1 020 CN MAY 23	816 CN APR 12	27 600 000	1973
1974	---	1 480 CN JUL 24	793 CN FEB 19	35 300 000	1974
1975	1 300 AT 17:15 CST ON JUN 12	1 290 CN JUN 08	784 CN DEC 25	32 500 000	1975
1976	1 300 AT 20:05 CST ON OCT 26	1 300 CN OCT 27	660 CN JUN 14	30 000 000	1976
1977	1 480 AT 19:00 CST ON JUL 26 *	1 480 CN JUL 22	847 CN DEC 20	33 900 000	1977
1978	1 220 AT 09:50 CST ON NOV 01	1 210 CN OCT 30	801 CN APR 21	28 800 000	1978
1979	1 070 AT 16:49 CST ON JUN 18	1 070 CN JUN 18	685 CN SEP 21	27 800 000	1979
1980	---	---	---	---	1980
1981	---	---	---	---	1981
1982	875 AT 17:27 CST ON MAY 20	869 CN MAY 20	468 CN NOV 03 *	18 200 000	1982
1983	738 AT 18:00 CST ON MAY 22	730 CN MAY 21	500 CN SEP 12	21 800 000	1983
1984	899 AT 14:30 CST ON OCT 15	892 CN OCT 15	596 CN OCT 16	23 300 000	1984
1985	954 AT 16:10 CST ON MAY 02	942 CN MAY 02	562RE CN NOV 19	23 500 000	1985
1986	988 AT 19:00 CST ON JUL 02	984 CN JUL 02	627E CN JAN 01	24 300 000	1986
1987	967 AT 16:16 CST ON JUN 06	956 CN JUN 06	---	---	1987
1988	959 AT 17:35 CST ON MAY 12	953 CN MAY 12	530 CN AUG 05	22 000 000	1988
1989	823 AT 15:00 CST ON MAY 21	812 CN MAY 18	575E CN FEB 08	20 700 000	1989
1990	805 AT 15:10 CST ON JUN 08	759 CN JUN 08	---	---	1990
MEAN	832 AT 19:20 CST ON MAY 29	826 CN MAY 29	---	25 800 000	MEAN

E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1989

CHURCHILL RIVER ABOVE LEAF RAPIDS - STATION NO. 06EB004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	910	901	875	865	985	1 100	1 070	950	937	921	931	916	947	1973
1974	895	864	866	897	1 190	1 410	1 540	1 580	1 520	1 390	1 250	1 140	1 220	1974
1975	1 060	987	996	978	1 180	1 410	1 380	1 300	1 210	1 190	1 090	933	1 140	1975
1976	890	884	887	885	885	855	1 100	1 300	1 330	1 430	1 450	1 260	1 090	1976
1977	1 030	974	960	966	1 220	1 450	1 440	1 590	1 530	1 320	1 100	994	1 220	1977
1978	949	951	939	900	879	1 040	1 060	1 030	1 040	1 140	1 280	1 120	1 040	1978
1979	1 040	966	961	923	963	1 150	1 090	910	823	856	956	982	968	1979
1980	972	962	957	953	1 010	898	847	804	961	1 050	1 000	950	954	1980
1981	941	927	874	827	888	924	804	707	658	695	700	715	802	1981
1982	698	685	662	---	783	---	---	767	750	698	646	685	---	1982
1983	739	746	728	712	783	862	821	777	791	---	---	935	---	1983
1984	880	853	826	858	991	922	891	839	786	757	772	787	847	1984
1985	792	789	776	748	984	1 130	1 160	1 030	841	747	699	704	867	1985
1986	734	761	774	774	900	1 070	1 020	1 050	938	821	790	799	870	1986
1987	873	856	857	864	1 020	974	855	786	752	730	755	808	844	1987
1988	826	824	788	784	876	909	832	718	732	723	687	670	781	1988
1989	656	641	654	644	793	1 010	961	834	787	759	774	768	774	1989
1990	781	781	749	758	865	925	809	707	646	600	590	606	734	1990
MEAN	870	853	841	843	961	1 060	1 050	987	946	929	910	878	944	MEAN

LOCATION - LAT 56 29 37 N
LONG 100 02 55 W

DRAINAGE AREA 244 000 km^2
REGULATED SINCE 1928

CHURCHILL RIVER ABOVE LEAF RAPIDS - STATION NO. 06ED004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	1 120 ON JUN 05	855 ON APR 18	29 900 000	1973
1974	1 630 AT 03:00 CST ON JUL 27 *	1 610 ON JUL 21 *	855 ON FEB 25	38 300 000	1974
1975	1 450 AT 23:08 CST ON JUL 01	1 450 ON JUL 01	875 ON DEC 31	36 100 000	1975
1976	1 510 AT 03:12 CST ON NOV 05	1 460 ON OCT 26	833 ON JUN 19	34 600 000	1976
1977	1 610 AT 23:14 CST ON AUG 11	1 610 ON AUG 11	929E ON APR 10	38 600 000	1977
1978	1 340 AT 03:32 CST ON NOV 08	1 310 ON NOV 06	881 ON APR 22	32 700 000	1978
1979	1 210 AT 04:00 CST ON JUN 26	1 190 ON JUN 25	806 ON SEP 26	30 500 000	1979
1980	1 070 AT 06:05 CST ON OCT 31	1 060 ON OCT 14	833 ON JUL 15	30 200 000	1980
1981	973 AT 05:14 CST ON JUN 30	972 ON MAY 30	645 ON SEP 26	25 300 000	1981
1982	---	---	626 ON APR 28	---	1982
1983	---	---	707 ON APR 13	---	1983
1984	1 010 AT 16:20 CST ON MAY 20	1 000 ON MAY 06	739 ON OCT 16	26 800 000	1984
1985	1 200 AT 05:05 CST ON JUL 07	1 190 ON JUL 07	691 ON NOV 23	27 300 000	1985
1986	1 120 AT 12:07 CST ON JUN 13	1 110 ON JUN 13	718 ON JAN 02	27 400 000	1986
1987	---	1 050 ON MAY 21	720 ON OCT 19	26 600 000	1987
1988	939 AT 11:50 CST ON JUN 30	933 ON JUN 03	664 ON DEC 29	24 700 000	1988
1989	1 040 AT 15:55 CST ON JUN 20	1 020 ON JUN 13	629 ON APR 21	24 400 000	1989
1990	956 AT 15:30 CST ON JUN 15	948 ON JUN 04	586 ON NOV 19 *	23 200 000	1990
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		29 800 000	MEAN

CHURCHILL RIVER ABOVE RED HEAD RAPIDS - STATION NO. 06FD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	1 480	1 300	1 140	---	---	---	1 840	1 670	1 750	---	---	---	---	1972
1973	---	1 100	1 120	---	---	---	1 300	1 030	942	1 010	1 030	1 130	---	1973
1974	1 150	1 130	1 070	1 020	1 120	1 420	1 520	1 680	1 650	1 610	1 540	1 420	1 360	1974
1975	1 270	1 150	1 090	1 090	1 240	1 640	1 780	1 760	1 690	1 590	1 390	1 100	1 400	1975
1976	885	791	775	1 110	1 360	1 230	672	657	832	1 300	1 250	1 080	995	1976
1977	750	717	702	789	1 570	1 060	1 690	1 250	1 050	838	499	277	1 000	1977
1978	208	206	203	206	354	1 150	780	1 140	1 290	1 000	747	512	651	1978
1979	400	309	237	186	430	1 030	1 110	---	---	---	212	183	---	1979
1980	149	152	158	274	491	620	733	821	1 650	888	582	345	572	1980
1981	268	226	212	204	---	525	236	151	117	260	204	151	---	1981
1982	137	130	124	112	---	701	655	285	309	328	277	220	---	1982
1983	178	134	102	99.7	229	---	327	---	---	903	463	265	---	1983
1984	201	177	157	---	---	---	---	---	91.9	151	197	157	---	1984
1985	134	105	96.8	86.3	---	436	355	349	107	160	150	132	---	1985
1986	122	89.6	77.7	86.7	1 190	---	---	---	---	---	---	---	---	1986
1987	130	113	110	124	543	376	243	125	271	---	---	---	---	1987
1988	127	117	96.0	97.8	---	633	288	279	182	---	---	---	---	1988
1989	150	110	106	78.1	---	---	---	---	---	---	---	161	---	1989
											166	143	---	
1990	128	110	87.1	70.4	83.4	525	313	182	160	163	303	207	194	1990
MEAN	438	430	404	353	783	934	865	813	806	785	601	466	882	MEAN

LOCATION - LAT 58 07 15 N DRAINAGE AREA 207 000 km^2
LONG 094 37 30 W REGULATED SINCE 1928

CHURCHILL RIVER ABOVE RED HEAD RAPIDS - STATION NO. 06FD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	---	---	1972
1973	---	---	799 ON NOV 07	---	1973
1974	1 740 AT 06:00 CST ON AUG 10	1 720 ON AUG 09	1 020 B ON APR 10	43 000 000	1974
1975	1 910 AT 14:57 CST ON JUN 30	1 890 ON JUN 30	988 B ON DEC 31	44 200 000	1975
1976	---	1 850E ON JUN 05	634 ON JUL 10	31 500 000	1976
1977	2 000 AT 20:41 CST ON JUL 02 *	1 980 ON JUL 02	210 B ON DEC 20	31 600 000	1977
1978	1 870 AT 17:17 CST ON SEP 05	1 850 ON SEP 05	202 B ON MAR 25	20 500 000	1978
1979	1 200 AT 06:43 CST ON JUL 17	1 180 ON JUL 17	153 B ON DEC 31	---	1979
1980	---	2 220 ON SEP 08	146 B ON JAN 09	18 100 000	1980
1981	---	---	107 ON SEP 30	---	1981
1982	---	---	---	---	1982
1983	---	---	---	---	1983
1984	---	---	98.8B ON MAY 06	---	1984
1985	---	---	---	---	1985
1986	---	2 650B ON MAY 17 *	---	---	1986
1987	---	673B ON MAY 11	---	---	1987
1988	---	---	---	---	1988
1989	---	---	---	---	1989
1990	745 AT 18:38 CST ON JUN 15	742 ON JUN 16	68.0B ON MAY 10 *	6 130 000	1990
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		27 900 000	MEAN

CHURCHILL RIVER BELOW FIDLER LAKE - STATION NO. 06FB001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	---	---	---	---	1 490	---	---	---	1960
1962	---	---	---	---	---	---	2 140	1 620	---	---	---	---	---	1962
1963	---	---	---	---	---	---	1 580	---	---	---	---	---	---	1963
1964	---	---	---	---	---	---	1 130	---	---	1 340	1 320	1 290	---	1964
1965	1 200	1 110	1 020	1 100	1 250	1 440	1 410	1 300	1 150	---	---	---	---	1965
1966	---	---	---	---	---	---	---	---	---	924	828	794	---	1966
1967	766	740	---	---	---	---	1 350	1 230	1 090	981	---	---	---	1967
1968	746	767	781	800	929	1 310	1 290	1 100	1 010	1 080	1 070	935	985	1968
1969	798	777	793	851	973	1 100	1 110	967	1 130	1 350	1 270	1 100	1 020	1969
1970	893	815	756	699	924	1 320	1 310	1 290	1 270	1 220	1 230	1 100	1 070	1970
1971	942	893	861	797	1 070	1 100	1 620	1 410	1 390	1 530	1 540	1 380	1 210	1971
1972	1 250	1 170	1 130	1 050	1 240	1 470	1 540	1 430	1 290	1 180	1 100	1 120	1 250	1972
1973	1 100	1 030	992	956	1 120	1 240	1 220	990	918	951	1 040	1 090	1 050	1973
1974	1 110	1 070	1 020	977	1 020	1 270	1 430	1 560	1 550	1 520	1 450	1 370	1 280	1974
1975	1 290	1 190	1 100	1 050	1 190	1 440	1 690	1 660	1 540	1 450	1 320	1 080	1 340	1975
1976	979	804	761	1 100	1 240	884	473	525	775	1 110	1 240	1 160	921	1976
1977	995	867	733	756	1 370	1 750	1 550	1 160	919	748	480	258	966	1977
1978	199	199	199	203	408	956	532	759	892	713	711	609	533	1978
1979	535	377	220	169	281	461	848	497	158	168	177	147	337	1979
1980	129	128	127	171	225	348	463	460	1 150	610	386	290	374	1980
1981	241	207	204	198	271	185	99.3	76.1	64.6	184	183	128	170	1981
1982	120	109	113	113	181	248	375	117	138	200	172	135	169	1982
1983	117	88.4	68.6	66.2	93.9	---	---	---	---	---	---	---	---	1983
1984	161	151	137	---	---	---	---	61.7	58.6	130	155	124	---	1984
1985	113	98.4	77.8	---	---	---	245	287	63.0	143	139	114	---	1985
1986	101	68.4	55.8	47.9	274	649	1 060	617	282	145	138	115	298	1986
1987	98.7	79.0	76.3	92.6	273	138	103	76.4	87.4	105	162	130	110	1987
1988	110	104	78.8	65.7	201	242	137	127	96.5	90.2	183	142	111	1988
1989	128	98.8	63.8	53.8	224	260	152	77.5	79.9	80.5	166	114	125	1989
1990	87.8	76.6	62.7	54.3	84.6	200	147	96.5	73.2	89.8	245	179	116	1990
MEAN	568	521	476	517	670	858	962	780	716	751	696	621	673	MEAN

LOCATION - LAT 57 15 00 N DRAINAGE AREA, 271 000 km²
LONG 096 47 50 W REGULATED SINCE 1928

CHURCHILL RIVER BELOW FIDLER LAKE - STATION NO. 06FB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	---	---	---	1960
1962	---	---	---	---	1962
1963	---	---	---	---	1963
1964	---	---	---	---	1964
1965	---	1 550 ON JUN 19	---	---	1965
1966	---	---	---	---	1966
1967	---	---	---	---	1967
1968	---	1 380 ON JUN 22	736 B ON JAN 01	31 100 000	1968
1969	---	1 400 ON OCT 28	776 B ON FEB 03	32 100 000	1969
1970	---	1 340 ON JUN 15	685 B ON APR 14	33 700 000	1970
1971	1 800 AT 15:31 CST ON JUL 13	1 790 ON JUL 13	782 B ON APR 12	38 300 000	1971
1972	---	1 570 ON JUL 22	1 040 ON APR 18	39 500 000	1972
1973	1 260 AT 19:00 CST ON JUN 14	1 260 ON JUN 14	883 ON AUG 26	33 200 000	1973
1974	1 570 AT 22:00 CST ON AUG 29	1 570 ON AUG 10	966 ON APR 17	40 400 000	1974
1975	1 710 AT 20:45 CST ON JUL 09	1 700 ON JUL 08	1 010 B ON DEC 30	42 100 000	1975
1976	1 560 AT 14:30 CST ON JUN 03	1 540 ON JUN 03	453 ON JUL 08	29 100 000	1976
1977	1 920 AT 14:07 CST ON JUN 22 *	1 910 ON JUN 20 *	199 B ON DEC 20	30 500 000	1977
1978	1 470 AT 20:31 CST ON SEP 02	1 460 ON SEP 04	199 B ON JAN 01	16 800 000	1978
1979	902 AT 14:27 CST ON JUL 16	895 ON JUL 10	116 E ON SEP 23	10 600 000	1979
1980	1 710 AT 14:04 CST ON SEP 07	1 710 ON SEP 07	127 B ON MAR 06	11 800 000	1980
1981	371 AT 20:47 CST ON MAY 22	367 ON MAY 22	60.3 ON SEP 20	5 360 000	1981
1982	---	513 ON JUL 10	96.1 ON AUG 14	5 330 000	1982
1983	---	---	---	---	1983
1984	---	---	---	---	1984
1985	---	---	---	---	1985
1986	1 320 AT 10:05 CST ON JUL 18	1 310 ON JUL 17	40.5B ON APR 28 *	9 410 000	1986
1987	199 AT 17:00 CST ON MAY 04	198 ON MAY 04	58.5B ON APR 14	3 480 000	1987
1988	280 AT 16:18 CST ON JUN 10	278 ON JUN 09	59.8 ON OCT 19	4 160 000	1988
1989	371 AT 15:05 CST ON MAY 24	370 ON MAY 24	53.0B ON APR 06	3 940 000	1989
1990	---	260 ON JUN 21	52.3B ON MAY 06	3 670 000	1990
				21 200 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

COCHRANE RIVER NEAR BROCHET - STATION NO. 06DA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	99.9	88.6	77.5	---	---	---	---	189	169	---	---	---	---	1968
1969	142	112	99.1	89.0	122	---	---	---	---	---	---	---	---	1969
1970	114	106	97.3	---	---	---	128	121	149	169	166	137	---	1970
1971	121	112	103	---	---	---	---	---	201	219	199	165	---	1971
1972	143	117	94.9	97.4	190	242	254	234	226	211	177	166	179	1972
1973	147	133	121	110	163	192	188	170	142	134	125	111	145	1973
1974	104	99.1	96.4	95.7	---	---	175	184	176	161	142	129	---	1974
1975	117	109	103	104	178	212	237	220	190	175	154	138	162	1975
1976	130	126	124	145	187	229	238	187	198	218	199	173	180	1976
1977	155	144	139	172	252	314	366	336	296	268	236	194	240	1977
1978	156	131	116	113	209	260	247	272	272	260	226	195	205	1978
1979	170	141	120	111	161	207	204	168	152	153	140	127	155	1979
1980	115	107	103	131	157	148	153	209	248	220	184	152	161	1980
1981	129	122	119	120	178	206	197	164	145	128	109	94.8	143	1981
1982	89.7	85.7	91.8	79.9	171	214	189	160	121	148	131	117	135	1982
1983	109	104	99.8	97.6	119	152	210	223	261	253	217	185	171	1983
1984	146	126	107	145	231	231	203	188	175	162	134	117	164	1984
1985	115	115	115	115	234	246	194	160	187	224	172	129	167	1985
1986	113	109	114	142	243	413	358	281	---	---	---	---	---	1986
1987	138	134	130	138	206	257	235	172	136	125	116	107	158	1987
1988	107	101	95.1	89.5	151	231	242	206	163	140	134	135	150	1988
1989	133	124	106	94.6	215	293	307	299	252	234	194	142	200	1989
1990	120	119	118	118	164	194	195	182	172	171	147	137	153	1990
MEAN	127	116	108	114	186	238	226	206	193	189	165	142	169	MEAN

LOCATION - LAT 58 00 00 N DRAINAGE AREA, 28 400 km²
LONG 101 23 45 W NATURAL FLOW

COCHRANE RIVER NEAR BROCHET - STATION NO. 06DA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	---	---	---	1968
1969	---	---	---	---	1969
1970	---	---	---	---	1970
1971	---	---	---	---	1971
1972	265 AT 16:00 CST ON JUN 28	264 ON JUN 26	84.1B ON APR 04	5 670 000	1972
1973	203 AT 15:45 CST ON JUN 12	202 ON JUN 13	106 B ON APR 23	4 570 000	1973
1974	---	---	---	---	1974
1975	246 AT 14:17 CST ON JUL 12	243 ON JUL 10	101 B ON APR 06	5 100 000	1975
1976	257 AT 19:25 CST ON JUN 26	255 ON JUN 27	124 B ON FEB 27	5 680 000	1976
1977	380 AT 16:23 CST ON JUL 22 *	305 ON JUL 21	139 B ON MAR 08	7 570 000	1977
1978	306 AT 13:30 CST ON AUG 24	303 ON AUG 23	112 B ON MAR 29	6 470 000	1978
1979	215 AT 19:20 CST ON MAY 22	215 ON MAY 22	110 B ON APR 10	4 870 000	1979
1980	254 AT 10:01 CST ON SEP 01	253 ON AUG 31	102 B ON MAR 21	5 080 000	1980
1981	212 AT 12:00 CST ON JUN 16	212 ON JUN 17	92.1B ON DEC 31	4 510 000	1981
1982	242 AT 19:25 CST ON JUN 15	242 ON JUN 15	78.0B ON APR 18 *	4 260 000	1982
1983	270 AT 19:05 CST ON SEP 27	270 ON SEP 27	96.5B ON MAY 05	5 400 000	1983
1984	257 ON APR 27	254 ON APR 27	93.4B ON APR 09	5 180 000	1984
1985	261 AT 07:45 CST ON MAY 24	258 ON MAY 24	115 B ON JAN 01	5 280 000	1985
1986	---	447A ON JUN 10 *	---	---	1986
1987	270 AT 13:10 CST ON JUN 20	269 ON JUN 20	106 B ON DEC 26	4 980 000	1987
1988	256 AT 14:00 CST ON JUL 12	253 ON JUL 11	87.3B ON APR 27	4 730 000	1988
1989	326 AT 13:18 CST ON JUL 30	324 ON JUL 29	92.5B ON APR 30	6 310 000	1989
1990	211 AT 16:39 CST ON JUN 21	211 ON JUN 21	118 B ON MAR 16	4 830 000	1990
				5 320 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

CONJURING CREEK NEAR RUSSELL - STATION NO. 05ME005

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.049	0.051	0.002	0.084	0.016	0	0	0	---	---	0.025	1959
1960	---	---	0	1.06	0.170	0.107	0	0	0	0	---	---	0.164	1960
1961	---	---	0.002	0.001	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0.361	0.069	0	0	0	0	0	---	---	0.053	1962
1963	---	---	0.193	0.057	0	0	0	0	0	0	---	---	0.031	1963
1964	---	---	0	0.298	0.090	0	0	0	0	0	---	---	0.048	1964
1965	---	---	0	0.558	0.100	0.015	0	0	0.035	0.036	---	---	0.092	1965
1966	---	---	0.035	0.939	0.225	0.008	0.001	0	0	0	---	---	0.149	1966
1967	---	---	0	0.409	0.251	0.002	0	0	0	0	---	---	0.082	1967
1968	---	---	0.184	0.293	0.008	0	0	0	0	0	---	---	0.060	1968
1969	---	---	0	0.690	0.009	0	0.005	0	0	0	---	---	0.086	1969
1970	---	---	0	0.493	0.385	0.009	0	0	0	0	---	---	0.110	1970
1971	---	---	0	0.460	0.038	0.178	0.146	0.013	0	0.010	---	---	0.104	1971
1972	---	---	0	1.19	0.204	0	0	0	0	0	---	---	0.172	1972
1973	---	---	0.055	0.005	0	0.026	0	0.006	0.165	0.160	---	---	0.052	1973
1974	---	---	0	1.91	0.639	0.096	0	0	0	0	---	---	0.326	1974
1975	---	---	0	0.795	0.222	0.039	0	0	0.036	0.016	---	---	0.137	1975
1976	---	---	0.001	1.45	0.063	0.235	0.099	0.153	0.128	0	---	---	0.262	1976
1977	---	---	0	0.273	0.112	0.012	0.022	0.070	0.021	0.018	---	---	0.065	1977
1978	---	---	0.005	0.726	0.113	0.002	0	0.039	0.005	0.005	---	---	0.110	1978
1979	---	---	0	1.39	0.841	0.039	0	0	0	0	---	---	0.282	1979
1980	---	---	0	0.175	0.001	0	0	0	0	0	---	---	0.022	1980
1981	---	---	0.130	0.139	0	0	0.001	0.001	0	0	---	---	0.034	1981
1982	---	---	0.003	0.296	0.003	0	0	0	0	0	---	---	0.037	1982
1983	---	---	0	0.804	0.130	0.016	0.217	0.002	0	0	---	---	0.145	1983
1984	---	---	0.061	0.048	0.009	0.004	0	0	0	0	---	---	0.015	1984
1985	---	---	0	0.845	0.012	0.001	0	0	0.001	0.036	---	---	0.110	1985
1986	---	---	0.250	1.31	0.207	0.046	0.041	0.002	0	0	---	---	0.229	1986
1987	---	---	0	0.994	0.003	0	0.009	0.002	0.001	0.003	---	---	0.124	1987
1988	---	---	0.006	0.745	0.345	0	0	0	0	0	---	---	0.136	1988
1989	---	---	0	0.089	0	0	0	0	0	0	---	---	0.011	1989
1990	---	---	0	0.624	0.202	0.022	0.040	0.005	0	0	---	---	0.110	1990
MEAN	---	---	0.030	0.609	0.139	0.029	0.019	0.009	0.012	0.009	---	---	0.106	MEAN

LOCATION - LAT 50 47 30 N DRAINAGE AREA, 88.1 km²
LONG 101 17 55 W NATURAL FLOW

CONJURING CREEK NEAR RUSSELL - STATION NO. 05ME005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	0.651 ON MAR 30	0B ON MAR 01 *	526	1959
1960	---	5.47 ON APR 13	0B ON MAR 01	3 480	1960
1961	---	0.006B ON MAR 21	0B ON MAR 01	8.29	1961
1962	---	3.79 B ON APR 20	0B ON MAR 01	1 120	1962
1963	---	1.09 B ON MAR 24	0B ON MAR 01	664	1963
1964	---	1.61 B ON APR 16	0B ON MAR 01	1 010	1964
1965	---	4.19 ON APR 14	0B ON MAR 01	1 940	1965
1966	---	3.34 ON APR 03	0B ON MAR 01	3 150	1966
1967	---	2.81 B ON APR 23	0B ON MAR 01	1 740	1967
1968	---	0.906B ON MAR 26	0B ON MAR 01	1 270	1968
1969	---	4.11 ON APR 11	0B ON MAR 01	1 830	1969
1970	---	1.40 ON APR 30	0B ON MAR 01	2 330	1970
1971	---	1.84 B ON APR 09	0B ON MAR 01	2 210	1971
1972	---	4.19 ON APR 21	0B ON MAR 01	3 640	1972
1973	---	1.00 ON OCT 05	0B ON MAR 01	1 100	1973
1974	15.9 B AT 22:10 CST ON APR 18 *	12.5 ON APR 19 *	0B ON MAR 01	6 910	1974
1975	5.78 B AT 09:11 CST ON APR 21	4.36 B ON APR 21	0B ON MAR 01	2 900	1975
1976	---	5.18 B ON APR 07	0B ON MAR 01	5 550	1976
1977	---	1.11 B ON APR 07	0B ON MAR 01	1 390	1977
1978	---	1.94 ON APR 18	0B ON MAR 01	2 330	1978
1979	8.86 B AT 13:45 CST ON APR 22	7.30 B ON APR 22	0B ON MAR 01	5 970	1979
1980	---	1.02 B ON APR 09	0B ON MAR 01	458	1980
1981	0.862 AT 05:39 CST ON MAR 31	0.860 ON MAR 31	0B ON MAR 01	714	1981
1982	1.28 AT 07:51 CST ON APR 16	0.974 ON APR 16	0B ON MAR 01	784	1982
1983	4.20 AT 20:44 CST ON APR 21	3.65 ON APR 22	0B ON MAR 01	3 060 *	1983
1984	1.65 B AT 06:30 CST ON MAR 28	1.17 B ON MAR 28	0B ON MAR 01	321	1984
1985	3.14 B AT 10:41 CST ON APR 10	2.52 B ON APR 11	0B ON MAR 01	2 330	1985
1986	4.39 B AT 08:45 CST ON APR 02	3.90 B ON APR 02	0B ON MAR 01	4 850	1986
1987	---	5.19 B ON APR 08	0B ON MAR 01	2 620	1987
1988	4.88 B AT 17:00 CST ON APR 04	4.73 B ON APR 04	0B ON MAR 01	2 870	1988
1989	0.755B AT 03:02 CST ON APR 07	0.645B ON APR 07	0 ON MAR 01	231	1989
1990	2.92 B AT 11:09 CST ON APR 16	1.99 B ON APR 16	0B ON MAR 01	2 330	1990
				2 240	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

COOKS CREEK AT COOKS CREEK - STATION NO. 05QJ006

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	20.2	1.79	0.154	0.039	0.157	0.037	0.033	---	---	2.75	1960
1961	---	---	0.671	1.90	0.065	0.019	0.007	0	0	0	---	---	0.329	1961
1962	---	---	0	2.75	1.57	1.42	1.45	0.325	0.005	0.003	---	---	0.936	1962
1963	---	---	0.754	4.22	0.784	3.49	0.699	0.050	0.004	0.023	---	---	1.24	1963
1964	---	---	0.011	4.14	2.35	0.592	0.022	0	0.058	0	---	---	0.888	1964
1965	---	---	0	6.20	1.21	1.82	0.707	0.068	0.103	0.121	---	---	1.26	1965
1966	---	---	0	15.9	4.58	1.20	8.43	0.093	0.454	0.066	---	---	3.94	1966
1967	---	---	0.039	15.8	2.31	0.087	0.017	0.016	0.010	0	---	---	2.24	1967
1968	---	---	0.386	1.24	0.546	0.199	0.295	2.80	1.28	0.754	---	---	0.937	1968
1969	---	---	0	7.94	1.46	1.37	0.258	0.074	0.088	0.130	---	---	1.39	1969
1970	---	---	0	10.0	3.97	3.23	0.103	0.017	0.956	0.056	---	---	2.26	1970
1971	---	---	0	11.8	0.656	0.080	0.032	0.008	0	0.035	---	---	1.54	1971
1972	---	---	0.008	6.15	0.473	0.116	0.001	0.004	0.053	0.076	---	---	0.845	1972
1973	---	---	2.23	0.238	0.060	1.41	0.588	0.003	0.115	0.627	---	---	0.658	1973
1974	---	---	0	23.2	15.6	1.43	0.030	0	0.016	0.131	---	---	5.00	1974
1975	---	---	0	2.69	0.225	3.18	0.334	0	0	0.001	---	---	0.789	1975
1976	---	---	0	6.04	0.078	1.12	0.060	0.014	0.003	0	---	---	0.897	1976
1977	---	---	0.012	0.475	0.081	0.105	0.206	0.093	2.24	0.414	---	---	0.448	1977
1978	---	---	0	14.3	1.29	0.258	0.032	0.030	0	0	---	---	1.96	1978
1979	---	---	0	14.2	6.64	2.46	0.016	0	0	0	---	---	2.88	1979
1980	---	---	0	4.98	0.065	0.003	0	0	0	0	---	---	0.619	1980
1981	---	---	0.568	0.167	0	0	0	0	0	0	---	---	0.092	1981
1982	---	---	0.374	3.14	0.067	0.253	0.134	0.010	0	0.151	---	---	0.509	1982
1983	---	---	0.626	8.15	0.450	0.243	0.295	0	0	0	---	---	1.20	1983
1984	---	---	0.137	0.595	0.021	2.66	0.298	0.002	0	0.080	---	---	0.467	1984
1985	---	---	1.53	1.44	0.103	0	0	1.59	0.053	0.409	---	---	0.644	1985
1986	---	---	4.40	8.62	5.78	0.135	0.462	0.448	0.056	0.086	---	---	2.49	1986
1987	---	---	0.013	8.23	0.101	---	---	0.531	0.587	1.23	---	---	---	1987
1988	---	---	0.015	0.842	0.025	0.042	0.070	0	0	0	---	---	0.122	1988
1989	---	---	0	3.22	0.085	0.161	0.080	0	0	0	---	---	0.434	1989
1990	---	---	0.014	0.631	0.067	1.57	0.342	0	0	0	---	---	0.323	1990
MEAN	---	---	0.380	6.75	1.73	0.960	0.499	0.204	0.197	0.143	---	---	1.34	MEAN

LOCATION - LAT 50 01 12 N DRAINAGE AREA, 527 km²
LONG 096 48 23 W NATURAL FLOW

COOKS CREEK AT COOKS CREEK - STATION NO. 05QJ006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	91.5 CN APR 13 *	0B CN MAR 01 *	58 100	1960
1961	---	5.38 CN APR 10	0B CN MAR 01	6 960	1961
1962	---	17.0 CN APR 22	0B CN MAR 01	19 800	1962
1963	---	32.3 CN JUN 05	0 CN SEP 16	26 200	1963
1964	---	16.2 CN APR 17	0 CN JUL 21	18 800	1964
1965	---	36.0 B CN APR 13	0B CN MAR 01	26 700	1965
1966	---	42.8 CN JUL 04	0B CN MAR 01	83 400	1966
1967	---	42.5 CN APR 21	0B CN MAR 01	47 500	1967
1968	---	22.9 CN AUG 25	0 CN MAR 01	19 800	1968
1969	---	32.6 B CN APR 10	0B CN MAR 01	29 500	1969
1970	---	33.7 CN APR 17	0B CN MAR 01	47 900	1970
1971	51.8 AT 03:02 CST CN APR 10	47.3 CN APR 10	0B CN MAR 01	32 700	1971
1972	26.3 B AT 09:43 CST CN APR 15	25.3 B CN APR 15	0 CN JUL 05	17 900	1972
1973	18.2 AT 03:22 CST CN JUN 21	12.7 CN JUN 21	0B CN MAR 01	13 900	1973
1974	78.2 B AT 12:19 CST CN APR 18 *	74.5 B CN APR 18	0B CN MAR 01	106 000	1974
1975	45.6 AT 15:44 CST CN JUN 23	35.1 CN JUN 23	0B CN MAR 01	16 700	1975
1976	---	28.2 B CN APR 06	0B CN MAR 01	19 000	1976
1977	11.0 AT 16:12 CST CN SEP 10	9.03 CN SEP 10	0B CN MAR 01	9 470	1977
1978	---	28.9 B CN APR 12	0B CN MAR 01	41 400	1978
1979	74.5 B AT 03:39 CST CN APR 20	73.6 B CN APR 20	0B CN MAR 01	61 000	1979
1980	25.0 B AT 07:42 CST CN APR 08	22.3 B CN APR 08	0B CN MAR 01	13 100	1980
1981	4.67B AT 00:30 CST CN MAR 27	2.28B CN MAR 27	0B CN MAR 01	1 950	1981
1982	13.6 AT 09:31 CST CN APR 14	12.3 B CN APR 16	0B CN MAR 01	10 800	1982
1983	28.0 B AT 11:10 CST CN APR 06	27.9 B CN APR 06	0B CN MAR 01	25 400	1983
1984	17.3 AT 03:14 CST CN JUN 18	14.8 CN JUN 18	0B CN MAR 06	9 890	1984
1985	24.3 AT 15:30 CST CN AUG 24	17.1 CN AUG 25	0B CN MAR 01	13 600	1985
1986	---	48.0 B CN MAR 31	0B CN MAR 01	52 800	1986
1987	---	36.0 B CN APR 07	---	---	1987
1988	---	6.35B CN APR 05	0B CN MAR 01	2 580	1988
1989	---	14.5 B CN APR 20	0B CN MAR 01	9 200	1989
1990	3.68 AT 10:09 CST CN JUN 21	3.49 CN JUN 21	0B CN MAR 01	6 830	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		28 300	MEAN

COOKS CREEK BELOW COOKS CREEK DIVERSION - STATION NO. 05QJ019

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1990	---	---	0.041	0.116	0.021	1.09	0.274	0.003	0.002	0.003	---	---	0.191	1990
MEAN	---	---	0.041	0.116	0.021	1.09	0.274	0.003	0.002	0.003	---	---	0.191	MEAN

LOCATION - LAT 49 54 01 N
LONG 096 44 22 W REGULATED SINCE 1989

COOKS CREEK BELOW COOKS CREEK DIVERSION - STATION NO. 05OJ019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1990	2.03 AT 23:31 CST ON JUN 20 *	1.92 ON JUN 20 *	0B ON MAR 01 *	4 050	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		4 050	MEAN

COOKS CREEK DIVERSION AT INLET - STATION NO. 05OJ020

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1990	---	---	0.011	0.007	0	0.064	0	0	0	0	---	---	0.010	1990
MEAN	---	---	0.011	0.007	0	0.064	0	0	0	0	---	---	0.010	MEAN

LOCATION - LAT 49 54 01 N
LONG 096 44 22 W REGULATED SINCE 1989

COOKS CREEK DIVERSION AT INLET - STATION NO. 05OJ020

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1990	---	0.260 ON JUN 21 *	0B ON MAR 01 *	214	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		214	MEAN

COOKS CREEK NEAR EAST SELKIRK - STATION NO. 05OJ002

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	5.08	12.6	1.34	0.575	0.316	0.021	0	0	---	---	2.47	1957
1958	---	---	0.073	0.132	0.031	0.004	2.32	0.047	0	0	---	---	0.329	1958
1959	---	---	0.006	9.88	4.61	4.85	0.325	2.40	2.70	14.8	---	---	4.94	1959
1960	---	---	0	29.3	2.03	0.544	0.007	0.175	0.009	0	---	---	3.94	1960
1961	---	---	1.04	2.91	0.322	0.123	0	0	0	0	---	---	0.543	1961
1962	---	---	0	6.12	1.92	1.64	1.66	0.738	0.017	0	---	---	1.50	1962
1963	---	---	0.837	5.36	0.890	3.56	0.610	0.042	0	0	---	---	1.39	1963
1964	---	---	0	6.28	2.81	0.934	0.053	0	0.006	0	---	---	1.25	1964
1965	---	---	0	7.70	1.27	1.26	0.585	0.082	0.051	0.087	---	---	1.36	1965
1966	---	---	0	25.6	7.33	0.988	6.14	0.032	0.525	0.030	---	---	5.04	1966
1967	---	---	0.027	22.1	2.30	0.111	0.020	0	0	0	---	---	3.02	1967
1968	---	---	0.805	2.16	0.572	0.208	0.390	3.01	1.48	0.540	---	---	1.16	1968
1969	---	---	0	10.3	1.58	1.92	0.407	0.029	0.050	0.273	---	---	1.79	1969
1970	---	---	0	12.6	4.82	4.34	0.387	0	0.441	0.152	---	---	2.81	1970
1971	---	---	0	19.5	0.745	0.149	0.041	0	0	0	---	---	2.50	1971
1972	---	---	0	9.80	0.439	0.008	0	0.070	0.003	0.013	---	---	1.27	1972
1973	---	---	3.02	0.242	0.007	2.75	0.386	0	0.186	0.926	---	---	0.938	1973
1974	---	---	0	31.3	20.9	1.77	0.026	0.001	0.001	0.001	---	---	6.70	1974
1975	---	---	0	5.05	0.184	1.92	0.137	0.006	0.005	0.003	---	---	0.896	1975
1976	---	---	0	3.27	0.072	2.75	0.093	0	0	0	---	---	1.49	1976
1977	---	---	0.001	0.548	0.014	0	0.127	0	2.25	0.493	---	---	0.423	1977
1978	---	---	0.017	16.8	1.72	0.402	0.268	0.005	0.002	0.001	---	---	2.36	1978
1979	---	---	0	18.4	4.79	3.01	0.005	0	0.032	0	---	---	3.23	1979
1980	---	---	0	8.00	0	0.004	0	0	0	0	---	---	0.980	1980
1981	---	---	0.428	0.046	0.015	0	0.002	0	0	0.016	---	---	0.064	1981
1982	---	---	0.644	6.80	0.037	0.333	0.209	0	0	0.243	---	---	1.02	1982
1983	---	---	0.784	11.3	0.313	0.119	0.247	0	0	0	---	---	1.37	1983
1984	---	---	0.163	0.992	0	2.96	0.249	0	0	0.003	---	---	0.536	1984
1985	---	---	4.04	2.36	0.216	0	0	2.18	0.130	0.601	---	---	1.20	1985
1986	---	---	5.43	11.5	6.65	0.124	0.353	0.671	0	0.003	---	---	3.08	1986
1987	---	---	0.009	12.1	0.066	0.024	0.042	0.722	0.002	0	---	---	1.59	1987
1988	---	---	0.025	1.65	0	0	0	0	0	0	---	---	0.205	1988
1989	---	---	0	5.05	0.075	0.127	0	0	0	0	---	---	0.643	1989
1990	---	---	0.337	1.44	0	2.39	0.348	0	0	0	---	---	0.555	1990
MEAN	---	---	0.670	9.56	2.00	1.17	0.463	0.301	0.232	0.538	---	---	1.85	MEAN

LOCATION - LAT 50 08 25 N DRAINAGE AREA, 674 km^2
LONG 096 45 48 W NATURAL FLOW

COOKS CREEK NEAR EAST SELKIRK - STATION NO. 05OJ002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	63.7 ON APR 25	0B ON MAR 01 *	52 200	1957
1958	---	12.6 E ON JUL 06	0B ON MAR 01	6 960	1958
1959	---	47.9 ON OCT 11	0B ON MAR 01	105 000	1959
1960	227 AT 09:30 ON APR 14 *	201 ON APR 14 *	0B ON MAR 01	83 300	1960
1961	---	9.48 ON MAR 27	0B ON MAR 01	11 500	1961
1962	---	46.7 ON APR 21	0B ON MAR 01	31 700	1962
1963	---	36.8 ON APR 09	0B ON MAR 01	29 500	1963
1964	---	26.2 ON APR 17	0B ON MAR 01	26 400	1964
1965	---	35.4 B ON APR 13	0B ON MAR 01	28 800	1965
1966	---	89.2 ON APR 14	0B ON MAR 01	107 000	1966
1967	---	52.1 ON APR 15	0B ON MAR 01	63 900	1967
1968	---	19.2 ON AUG 26	0B ON MAR 01	24 500	1968
1969	---	56.6 ON APR 10	0B ON MAR 01	38 000	1969
1970	---	43.0 ON APR 17	0B ON MAR 01	59 500	1970
1971	---	62.9 B ON APR 11	0B ON MAR 01	53 000	1971
1972	---	45.3 B ON APR 15	0 ON MAR 01	26 800	1972
1973	27.8 AT 19:38 CST ON JUN 21	22.7 ON JUN 21	0B ON MAR 01	19 800	1973
1974	112 B AT 17:16 CST ON APR 18	106 B ON APR 18	0B ON MAR 01	142 000	1974
1975	32.8 AT 06:00 CST ON JUN 24	28.1 ON JUN 24	0B ON MAR 01	19 000	1975
1976	---	45.0 B ON APR 06	0B ON MAR 01	31 600	1976
1977	9.20 AT 10:46 CST ON SEP 11	8.64 ON SEP 11	0B ON MAR 01	8 960	1977
1978	39.9 AT 22:30 CST ON APR 11	37.1 ON APR 12	0B ON MAR 01	50 000	1978
1979	106 A AT 20:00 CST ON APR 20	99.4 ON APR 21	0B ON MAR 01	68 300	1979
1980	45.6 AT 22:00 CST ON APR 08	43.8 ON APR 08	0B ON MAR 01	20 700	1980
1981	4.94 AT 10:03 CST ON MAR 29	1.29 ON MAR 28	0B ON MAR 01	1 360	1981
1982	25.2 AT 01:26 CST ON APR 15	23.8 ON APR 15	0B ON MAR 01	21 500	1982
1983	40.0 B AT 19:33 CST ON APR 06	36.6 B ON APR 07	0B ON MAR 01	33 300	1983
1984	15.9 AT 18:51 CST ON JUN 18	12.1 ON JUN 19	0B ON MAR 01	11 400	1984
1985	22.1 B AT 01:11 CST ON MAR 26	20.0 B ON MAR 26	0B ON MAR 01	25 300	1985
1986	62.4 B AT 01:31 CST ON MAR 31	60.4 B ON MAR 31	0B ON MAR 01	65 100	1986
1987	---	56.6 A ON APR 08	0B ON MAR 01	33 700	1987
1988	---	9.78B ON APR 05	0B ON MAR 01	4 350	1988
1989	21.7 B AT 18:58 CST ON APR 20	21.3 B ON APR 20	0B ON MAR 01	13 600	1989
1990	10.2 AT 08:43 CST ON JUN 22	9.52 ON JUN 22	0B ON MAR 01	11 700	1990
				39 100	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

COOKS CREEK NEAR GLASS - STATION NO. 05OJ007

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	6.17	1.25	0.469	0.007	0.038	0.004	0.004	---	---	0.977	1960
1961	---	---	0.154	0.320	0.010	0.035	0	0	0.001	0.003	---	---	0.067	1961
1962	---	---	0	0.309	0.721	0.64[illegible]	0.710	0.083	0.005	0.002	---	---	0.309	1962
1963	---	---	0.220	0.652	0.152	1.52	0.728	0.065	0.002	0.004	---	---	0.414	1963
1964	---	---	0	0.977	1.76	0.422	0.008	0	0.001	0.001	---	---	0.395	1964
1965	---	---	0	1.58	0.735	0.744	0.609	0.066	0.075	0.103	---	---	0.486	1965
1966	---	---	0	4.82	2.67	0.940	4.10	0.183	0.290	0.103	---	---	1.64	1966
1967	---	---	0.005	6.39	1.85	0.100	0.001	0	0	0	---	---	1.03	1967
1968	---	---	0.241	0.512	0.211	0.146	0.090	0.750	0.586	0.215	---	---	0.343	1968
1969	---	---	0	2.92	1.03	0.536	0.139	0.043	0.089	0.101	---	---	0.600	1969
1970	---	---	0	3.14	2.09	1.38	0.110	0.003	0.025	0.030	---	---	0.839	1970
1971	---	---	0	2.17	0.237	0.039	0.015	0.004	0.007	0.040	---	---	0.308	1971
1972	---	---	0	2.30	0.292	0.021	0.002	0.006	0.023	0.005	---	---	0.326	1972
1973	---	---	0.654	0.083	0.033	0.197	0.136	0.003	0.094	0.334	---	---	0.193	1973
1974	---	---	0	6.89	7.36	1.16	0.076	0.055	0.043	0.021	---	---	1.94	1974
1975	---	---	0	0.615	0.051	0.963	0.542	0.001	0.001	0.003	---	---	0.269	1975
1976	---	---	0	1.48	0.055	0.215	0.015	0.001	0	0.001	---	---	0.217	1976
1977	---	---	0	0.163	0.016	0.047	0.086	0.028	0.496	0.238	---	---	0.142	1977
1978	---	---	0.020	5.33	0.817	0.200	0.035	0.002	0.003	0.001	---	---	0.788	1978
1979	---	---	0	3.61	1.02	0.997	0.034	0.008	0.006	0.006	---	---	0.700	1979
1980	---	---	0	1.04	0.013	0.001	0.001	0.001	0.004	0.004	---	---	0.130	1980
1981	---	---	0.019	0.017	0.022	0.010	0.008	0	0.003	0.008	---	---	0.011	1981
1982	---	---	0.146	1.18	0.127	0.364	0.149	0.016	0.001	0.108	---	---	0.259	1982
1983	---	---	0.292	2.08	0.289	0.153	0.121	0	0	0	---	---	0.362	1983
1984	---	---	0.022	0.135	0.028	1.63	0.293	0.002	0	0.003	---	---	0.260	1984
1985	---	---	0.646	0.300	0.022	0.002	0.007	1.09	0.031	0.158	---	---	0.287	1985
1986	---	---	0.931	4.17	2.37	0.198	0.383	0.237	0.001	0.010	---	---	0.788	1986
1987	---	---	0.004	2.50	0.075	0.013	0.001	0.024	0.001	0.003	---	---	0.322	1987
1988	---	---	0.001	0.197	0.025	0.053	0.007	0	0	0	---	---	0.035	1988
1989	---	---	0	0.750	0.030	0.077	0.018	0	0.010	0.003	---	---	0.110	1989
MEAN	---	---	0.112	2.03	0.847	0.443	0.281	0.090	0.060	0.050	---	---	0.485	MEAN

LOCATION - LAT 49 53 10 N LONG 096 44 26 W
DRAINAGE AREA, 187 km²
NATURAL FLOW

COOKS CREEK NEAR GLASS - STATION NO. 05QJ007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	22.0 ON APR 12	0B ON MAR 01 *	20 700	1960
1961	---	1.14 B ON MAR 26	0B ON MAR 01	1 420	1961
1962	---	5.66 ON JUL 20	0B ON MAR 01	6 550	1962
1963	---	11.5 ON JUN 04	0 ON MAR 01	8 770	1963
1964	---	9.17 ON MAY 06	0B ON MAR 01	8 360	1964
1965	---	7.87 B ON APR 14	0B ON MAR 01	10 300	1965
1966	---	16.5 ON JUL 03	0B ON MAR 01	14 600	1966
1967	---	12.2 B ON APR 11	0B ON MAR 01	21 800	1967
1968	---	5.24 ON AUG 24	0B ON MAR 01	7 260	1968
1969	---	14.3 ON APR 09	0 ON MAR 01	12 700	1969
1970	16.1 AT 20:21 CST ON APR 16	13.8 ON APR 16	0A ON MAR 01	17 800	1970
1971	---	10.2 ON APR 10	0B ON MAR 01	6 520	1971
1972	---	8.07 B ON APR 15	0B ON MAR 01	6 900	1972
1973	5.30 AT 20:57 CST ON JUN 20	2.31 ON OCT 13	0B ON MAR 01	4 080	1973
1974	28.9 AT 15:18 CST ON MAY 22 *	28.1 ON MAY 22 *	0B ON MAR 01	41 100	1974
1975	14.5 AT 01:23 CST ON JUN 23	10.6 ON JUN 23	0B ON MAR 01	5 690	1975
1976	---	8.10 ON APR 06	0B ON MAR 01	4 590	1976
1977	4.16 AT 20:51 CST ON SEP 09	2.30 ON SEP 10	0B ON MAR 01	2 800	1977
1978	---	8.86 ON APR 11	0B ON MAR 01	16 700	1978
1979	---	18.7 ON APR 20	0B ON MAR 01	14 800	1979
1980	---	6.46 B ON APR 08	0B ON MAR 01	2 760	1980
1981	0.200 AT 09:00 CST ON MAY 25	0.178 ON MAY 25	0B ON MAR 01	230	1981
1982	5.30 AT 18:57 CST ON APR 14	4.03 B ON APR 13	0B ON MAR 01	5 470	1982
1983	---	5.33 B ON APR 01	0B ON MAR 01	7 670	1983
1984	10.2 AT 10:55 CST ON JUN 17	8.75 ON JUN 17	0B ON MAR 01	5 510	1984
1985	18.7 AT 12:34 CST ON AUG 24	17.0 ON AUG 24	0B ON MAR 01	6 080	1985
1986	10.7 AT 06:43 CST ON MAY 01	9.64 ON MAY 01	0B ON MAR 01	16 700	1986
1987	---	11.2 B ON APR 07	0B ON MAR 01	6 810	1987
1988	1.48 B AT 07:27 CST ON APR 05	1.08 B ON APR 05	0B ON MAR 01	737	1988
1989	---	3.79 B ON APR 20	0B ON MAR 01	2 330	1989
				10 300	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

CRYSTAL CREEK NEAR CRYSTAL CITY - STATION NO. 05OB006

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.288	0.026	0.028	0.034	0	0.016	0.001	0.001	---	---	0.050	1959
1960	---	---	0	2.45	0.008	0.003	0	0	0	0	---	---	0.302	1960
1961	---	---	0.612	0.439	0.010	0.001	0	0	0	0	---	---	0.133	1961
1962	---	---	0	1.59	0.019	0.013	0.001	0.024	0	0	---	---	0.202	1962
1964	---	---	0.037	0.200	0.009	0.005	0	0	0	0	---	---	0.031	1964
1965	---	---	0	0.186	0.158	0	0	0	0	0	---	---	0.043	1965
1966	---	---	1.05	0.226	0.038	0	0	0	0	0	---	---	0.166	1966
1967	---	---	0.040	0.418	0.032	0	0	0	0	0	---	---	0.060	1967
1968	---	---	0.158	0.045	0	0	0.052	0.743	0.126	0	---	---	0.142	1968
1969	---	---	0	2.67	0.022	0.021	0.033	0	0	0	---	---	0.336	1969
1970	---	---	0	2.05	0.127	0.423	0.003	0	0.011	0	---	---	0.320	1970
1971	---	---	0	1.73	0.147	0	0	0	0	0	---	---	0.230	1971
1972	---	---	1.39	1.27	0.013	0	0	0	0	0	---	---	0.333	1972
1973	---	---	0.006	0.001	0	0	0	0	0	0	---	---	0.001	1973
1974	---	---	0	3.45	1.36	0.130	0.002	0	0	0	---	---	0.611	1974
1975	---	---	0	0.583	0.087	0.010	0.001	0	0	0	---	---	0.084	1975
1976	---	---	0	2.61	0.047	0.001	0	0	0	0	---	---	0.325	1976
1977	---	---	0.003	0.005	0.024	0	0	0	0.001	0	---	---	0.004	1977
1978	---	---	0.039	1.17	0.147	0.021	0.022	0	0	0	---	---	0.172	1978
1979	---	---	0	2.30	0.606	0.074	0.001	0	0	0	---	---	0.367	1979
1980	---	---	0.003	0.167	0	0	0	0	0	0	---	---	0.021	1980
1981	---	0.018	0.237	0.005	0.112	0.010	0.001	0.002	0.001	0.001	---	---	0.047	1981
1982	---	---	0.274	0.837	0.013	0.700	0.037	0.001	0	0.004	---	---	0.230	1982
1983	---	---	0.207	0.327	0.015	0.002	0.001	0	0	0	---	---	0.068	1983
1984	---	---	0.092	0.005	0.024	0	0	0	0	0	---	---	0.015	1984
1985	---	---	1.37	0.048	0	0.001	0.001	0	0	0	---	---	0.179	1985
1986	---	---	0.585	0.176	0.082	0.036	0.006	0	0	0	---	---	0.111	1986
1987	---	---	0	1.63	0.014	0.004	0	0.003	0	0	---	---	0.202	1987
1988	---	---	0.047	0.015	0	0	0	0	0	0	---	---	0.008	1988
1989	---	---	0	0.456	0.001	0	0	0	0	0	---	---	0.056	1989
1990	---	---	0.052	0.466	0.001	0	0	0	0	0	---	---	0.064	1990
MEAN	---	0.018	0.209	0.889	0.101	0.048	0.005	0.025	0.005	0	---	---	0.158	MEAN

LOCATION - LAT 49 07 28 N, LONG 098 56 28 W DRAINAGE AREA, 135 km^2 NATURAL FLOW

CRYSTAL CREEK NEAR CRYSTAL CITY - STATION NO. 05OB006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.72 B ON MAR 29	OB ON MAR 01 *	1 050	1959
1960	---	12.4 ON APR 11	OB ON MAR 01	6 390	1960
1961	---	4.32 ON MAR 29	0 ON MAR 01	2 810	1961
1962	26.7 AT 17:30 CST ON APR 17 *	18.2 ON APR 17	OB ON MAR 01	4 280	1962
1964	---	0.940R ON APR 05	OB ON MAR 01	654	1964
1965	---	3.43 ON MAY 05	OB ON MAR 01	906	1965
1966	---	4.70 ON MAR 30	OB ON MAR 01	3 510	1966
1967	---	1.06 ON APR 24	OB ON MAR 01	1 280	1967
1968	---	8.61 R ON AUG 24	OB ON MAR 01	3 000	1968
1969	---	19.7 ON APR 11	OB ON MAR 01	7 120	1969
1970	---	8.35 ON APR 25	OB ON MAR 01	6 780	1970
1971	---	6.46 B ON APR 12	OB ON MAR 01	4 870	1971
1972	---	3.77 B ON MAR 21	OB ON MAR 01	7 050	1972
1973	---	0.014B ON MAR 16	OB ON MAR 01	18.7	1973
1974	---	22.0 B ON APR 17 *	OB ON MAR 01	12 900	1974
1975	---	4.13 B ON APR 13	OB ON MAR 01	1 770	1975
1976	---	17.2 B ON APR 06	OB ON MAR 01	6 890	1976
1977	0.433 AT 11:29 CST ON MAY 20	0.368 ON MAY 20	OB ON MAR 01	90.2	1977
1978	9.49 AT 02:29 CST ON APR 06	7.22 ON APR 06	OB ON MAR 01	3 640	1978
1979	---	16.2 B ON APR 20	OB ON MAR 01	7 770	1979
1980	1.56 B AT 15:18 CST ON APR 04	1.23 B ON APR 06	OB ON MAR 01	441	1980
1981	6.77 AT 03:52 CST ON MAY 23	1.77 ON MAY 23	0 ON MAY 01	990	1981
1982	---	4.83 B ON MAR 31	OB ON MAR 01	4 860	1982
1983	1.91 B AT 09:13 CST ON APR 02	1.29 B ON APR 02	OB ON MAR 01	1 450	1983
1984	1.08 B AT 19:53 CST ON MAR 24	0.739B ON MAR 26	OB ON MAR 01	325	1984
1985	11.5 B AT 17:50 CST ON MAR 20	10.8 B ON MAR 20	OB ON MAR 01	3 800	1985
1986	10.5 B AT 16:10 CST ON MAR 22	4.04 B ON MAR 23	OB ON MAR 01	2 350	1986
1987	24.4 B AT 18:44 CST ON APR 05	13.3 B ON APR 05	OB ON MAR 01	4 270	1987
1988	0.541B AT 08:55 CST ON MAR 26	0.306B ON MAR 26	0 ON APR 25	164	1988
1989	5.38 AT 20:22 CST ON APR 14	3.52 ON APR 14	OB ON MAR 01	1 180	1989
1990	9.39 B AT 17:25 CST ON APR 01	4.08 B ON APR 01	OB ON MAR 01	1 350	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1989		3 350	MEAN

CYPRESS CREEK ABOVE INTERNATIONAL BORDER NEAR SARLES - STATION NO. 05OB033

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1990	0	0	0.002	0.533	0.007	0.001	0	0	0	0	0	0	0.045	1990
MEAN	0	0	0.002	0.533	0.007	0.001	0	0	0	0	0	0	0.045	MEAN

LOCATION - LAT 48 58 37 N LONG 098 56 04 W DRAINAGE AREA, 215 km^2 NATURAL FLOW INTERNATIONAL GAUGING STATION

CYPRESS CREEK ABOVE INTERNATIONAL BORDER NEAR SARLES - STATION NO. 05OB033

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1990	7.31B AT 23:15 CST ON APR 01 *	4.64 ON APR 03 *	0 ON JAN 01 *	1 410	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 410	MEAN

CYPRESS CREEK NEAR CLEARWATER - STATION NO. 05OB010

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.283	0.246	0.008	0.010	0.006	0.007	0.065	0	---	---	0.078	1959
1960	---	---	0	5.96	0.098	0.010	0	0	0	0	---	---	0.743	1960
1961	---	---	0.150	0.263	0.001	0	0	0	0	0	---	---	0.051	1961
1962	---	---	0	2.87	0.018	0.067	0.353	0.251	0	0	---	---	0.439	1962
1963	---	---	0.240	0.148	0.015	2.16	0.501	0.718	0	0	---	---	0.471	1963
1964	---	---	0	1.85	0.012	0.080	0.084	0.012	0.009	0.031	---	---	0.255	1964
1965	---	---	0	0.940	0.715	0.190	1.14	0.153	0.026	0	---	---	0.395	1965
1966	---	---	1.18	0.964	0.465	0.030	0	0	0	0	---	---	0.331	1966
1967	---	---	0.052	2.69	0.328	0.009	0	0	0	0	---	---	0.378	1967
1968	---	---	0.214	0.091	0.008	0.002	0.015	0.537	0.513	0	---	---	0.172	1968
1969	---	---	0	4.07	0.013	0.115	0.322	0	0	0	---	---	0.555	1969
1970	---	---	0	3.53	1.90	3.71	0.631	0.023	0	0	---	---	1.21	1970
1971	---	---	0	10.3	0.275	0.247	0	0	0	0	---	---	1.40	1971
1972	---	---	3.42	3.03	0.070	0.013	0.006	0.007	0	0	---	---	0.816	1972
1973	---	---	0.046	0.020	0.006	0.001	0	0	0	0	---	---	0.009	1973
1974	---	---	0	10.5	2.40	0.166	0.009	0.002	0.001	0.002	---	---	1.62	1974
1975	---	---	0	2.29	0.509	0.204	0.022	0	0.001	0.001	---	---	0.373	1975
1976	---	---	0	7.74	0.036	0.002	0	0	0	0	---	---	0.952	1976
1977	---	---	0.001	0.005	0.106	0.006	0	0	0	0	---	---	0.015	1977
1978	---	---	0.003	2.28	0.308	0.046	0.010	0	0	0	---	---	0.326	1978
1979	---	---	0	7.05	1.38	0.041	0.002	0	0	0	---	---	1.04	1979
1980	---	---	0.011	0.242	0.002	0.002	0.001	0	0	0.001	---	---	0.032	1980
1981	---	0.356	0.556	0.035	0.007	0.003	0	0.055	0.004	0.002	---	---	0.083	1981
1982	---	---	0.154	3.85	0.094	7.58	0.037	0.001	0	0.007	---	---	1.44	1982
1983	---	---	0.482	1.06	0.034	0.006	0	0	0	0	---	---	0.196	1983
1984	---	---	0.177	0.091	0.081	0.009	0	0	0	0	---	---	0.045	1984
1985	---	---	1.51	0.170	0	0.526	0.251	0.005	0	0	---	---	0.308	1985
1986	---	---	1.48	0.806	0.169	1.28	0.099	0.009	0.005	0.006	---	---	0.488	1986
1987	---	---	0.027	4.61	0.014	0	0	0.001	0.002	0	---	---	0.570	1987
1988	---	---	0.023	0.047	0.005	0	0	0	0	0	---	---	0.009	1988
1989	---	---	0	1.92	0.008	0.002	0	0	0	0	---	---	0.236	1989
1990	---	---	0.180	1.72	0.011	0.001	0	0	0	0	---	---	0.235	1990
MEAN	---	0.356	0.318	2.56	0.284	0.517	0.109	0.056	0.020	0.002	---	---	0.477	MEAN

LOCATION - LAT 49 05 21 N LONG 098 58 54 W DRAINAGE AREA, 398 km² NATURAL FLOW

REMARKS - PUBLISHED AS "LONG RIVER" PRIOR TO 1976. THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OCCURRED IN FEB

CYPRESS CREEK NEAR CLEARWATER - STATION NO. 05OB010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	---	2.86 B ON MAR 31	OB ON MAR 01 *	1 640	1959
1960	---	25.5 E ON APR 08	OB ON MAR 01	15 700	1960
1961	---	1.12 B ON MAR 27	OB ON MAR 01	1 080	1961
1962	---	10.9 ON APR 17	OB ON MAR 01	9 280	1962
1963	---	12.4 ON JUN 10	OB ON MAR 01	9 970	1963
1964	---	9.32 B ON APR 10	OB ON MAR 01	5 390	1964
1965	---	10.4 ON MAY 05	OB ON MAR 01	8 360	1965
1966	---	6.12 B ON MAR 31	OB ON MAR 01	7 000	1966
1967	---	12.4 ON APR 21	OB ON MAR 01	8 010	1967
1968	---	6.09 ON AUG 24	OB ON MAR 01	3 640	1968
1969	---	16.2 ON APR 15	OB ON MAR 01	11 700	1969
1970	---	16.3 ON JUN 12	OB ON MAR 01	25 600	1970
1971	---	72.5 B ON APR 11 *	OB ON MAR 01	29 700	1971
1972	---	7.99 B ON MAR 21	OB ON MAR 01	17 300	1972
1973	---	0.161 ON MAR 23	OB ON MAR 01	192	1973
1974	---	68.8 ON APR 18	OB ON MAR 01	34 200	1974
1975	---	11.4 ON APR 15	OB ON MAR 01	7 900	1975
1976	---	53.0 B ON APR 05	OB ON MAR 01	20 200	1976
1977	---	0.668 ON MAY 25	OB ON MAR 01	315	1977
1978	---	11.9 B ON APR 07	OB ON MAR 01	6 900	1978
1979	---	36.8 B ON APR 22	OB ON MAR 01	22 100	1979
1980	---	0.973B ON APR 07	OB ON MAR 01	672	1980
1981	3.62 B AT 10:25 CST ON FEB 25	2.37 B ON MAR 14	0 ON JUN 29	1 770	1981
1982	---	56.4 ON JUN 06	OB ON MAR 01	30 400	1982
1983	4.19 B AT 11:46 CST ON APR 02	3.13 B ON APR 02	OB ON MAR 01	4 150	1983
1984	1.03 AT 08:20 CST ON MAR 30	0.857B ON MAR 26	OB ON MAR 01	953	1984
1985	11.7 AT 20:30 CST ON MAR 20	9.62 A ON MAR 20	OB ON MAR 01	6 520	1985
1986	10.1 B AT 03:15 CST ON MAR 22	8.37 B ON MAR 22	OB ON MAR 01	10 300	1986
1987	38.2 B AT 01:33 CST ON APR 06 *	30.6 B ON APR 06	OB ON MAR 01	12 100	1987
1988	0.194 AT 13:06 CST ON APR 04	0.186 ON APR 04	OB ON MAR 01	196	1988
1989	10.3 B AT 09:31 CST ON APR 09	7.16 B ON APR 07	OB ON MAR 01	5 000	1989
1990	12.5 AT 00:15 CST ON APR 02	9.97 B ON APR 01	OB ON MAR 01	4 970	1990
				10 100	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

CYPRESS CREEK NEAR SARLES - STATION NO. 05OB031

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	---	---	0	0	0	0	0	0	0	---	1961
1962	0	0	0	1.21	0.031	0.043	0.428	0.003	0	0	0	0	0.143	1962
1963	0	0	0.030	0.043	0.001	1.33	0.725	0.467	0.001	0	0	0	0.215	1963
1964	0	0	0	0.673	0.008	0.045	0.002	0	0	0	0	0	0.060	1964
1965	0	0	0	0.540	0.063	0.025	0.861	0.106	0.016	0.008	0	0	0.136	1965
1966	0	0	0.853	0.345	0.240	0.001	0	0	0	0	0	0	0.121	1966
1967	0	0	0.367	1.28	0.222	0	0	0	0	0	0	0	0.155	1967
1968	0	0	0.103	0.014	0	0	0	0.225	0.337	0.011	0.001	0	0.057	1968
1969	0	0	0	4.33	0.019	0.002	0.005	0	0	0	0	0	0.358	1969
1970	0	0	0	2.39	0.336	3.32	0.016	0	0	0	0	0	0.499	1970
1971	0	0	0	3.39	0.013	0	0.025	0	0	0	0	0	0.282	1971
1972	0	0	1.17	0.459	0.011	0	0	0	0	0	0	0	0.138	1972
1973	0	0	0.072	0.001	0	0	0	0	0	0	0	0	0.006	1973
1974	0	0	0	4.83	1.21	0.025	0	0	0	0	0	0	0.502	1974
1975	0	0	0	0.967	0.113	0.298	0.045	0	0	0	0	0	0.117	1975
1976	0	0	0	2.49	0.006	0	0	0.001	0	0	0	0	0.205	1976
1977	0	0	0	0.002	0.239	0.005	0	0	0	0	0	0	0.021	1977
1978	0	0	0	1.30	0.134	0.010	0.010	0	0	0	0	0	0.120	1978
1979	0	0	0	3.01	0.337	0.012	0	0	0	0	0	0	0.277	1979
1980	0	0	0	0.241	0.001	0.005	0.004	0.001	0	0	0	0	0.021	1980
1981	0	0.133	0.133	0.018	0.014	0	0	0	0	0	0	0	0.024	1981
1982	0	0	0.141	1.19	0.020	1.53	0.003	0.001	0	0.064	0.005	0.010	0.244	1982
1983	0	0	0.356	1.11	0.019	0.001	0.009	0	0	0	0	0	0.124	1983
1984	0	0	0.112	0.032	0.022	0.001	0	0	0	0	0	0	0.014	1984
1985	0	0	1.39	0.033	0	0.527	0.220	0.002	0	0.001	0	0	0.183	1985
1986	0	0	0.788	0.356	0.080	0.445	0.058	0	0	0	0	0	0.144	1986
1987	0	0	0	1.98	0.001	0	0	0.020	0.005	0	0	0	0.165	1987
1988	0	0	0.046	0.033	0	0	0	0	0	0	0	0	0.007	1988
1989	0	0	0	0.471	0.001	0.002	0	0	0	0	0	0	0.039	1989
MEAN	0	0.005	0.199	1.17	0.112	0.263	0.083	0.028	0.012	0.003	0	0	0.156	MEAN

LOCATION - LAT 48 56 35 N LONG 098 57 05 W DRAINAGE AREA, 149 km² NATURAL FLOW INTERNATIONAL GAUGING STATION

REMARKS - PUBLISHED AS "LONG RIVER" PRIOR TO 1976

CYPRESS CREEK NEAR SARLES - STATION NO. 05OB031

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	---	0 ON MAY 19 *	---	1961
1962	11.1 AT 04:30 CST ON JUL 08	7.93 ON JUL 08	0 ON JAN 01	4 500	1962
1963	16.2 AT 21:00 CST ON JUN 02	11.4 ON JUN 04	0 ON JAN 01	6 780	1963
1964	5.35 B ON APR 10	2.83 B ON APR 10	0 ON JAN 01	1 890	1964
1965	10.2 AT 19:00 CST ON JUL 22	6.77 ON JUL 23	0 ON JAN 01	4 280	1965
1966	19.0 B AT 16:30 CST ON MAR 17	7.08 B ON MAR 17	0B ON JAN 01	3 820	1966
1967	8.78 B AT 17:40 CST ON APR 21	7.36 B ON APR 22	0B ON JAN 01	4 890	1967
1968	2.78 AT 01:00 CST ON AUG 25	2.18 ON AUG 25	0 ON JAN 01	1 820	1968
1969	32.0 B AT 07:00 CST ON APR 12	31.1 B ON APR 12	0B ON JAN 01	11 300	1969
1970	49.3 AT 08:30 CST ON JUN 11	44.2 ON JUN 11 *	0 ON JAN 01	15 700	1970
1971	54.4 AT 00:00 CST ON APR 11	33.2 ON APR 11	0 ON JAN 01	8 900	1971
1972	6.94 B AT 13:00 CST ON MAR 19	6.46 B ON MAR 19	0B ON JAN 01	4 350	1972
1973	---	0.680 ON MAR 13	0 ON JAN 01	196	1973
1974	35.7 AT 22:00 CST ON APR 17	29.2 ON APR 18	0 ON JAN 01	15 800	1974
1975	11.0 AT 12:00 CST ON APR 13	5.66 ON APR 12	0 ON JAN 01	3 700	1975
1976	18.4 B AT 00:30 CST ON APR 04	17.6 B ON APR 05	0B ON JAN 01	6 480	1976
1977	1.42 AT 19:00 CST ON MAY 20	1.27 ON MAY 21	0B ON JAN 01	657	1977
1978	9.03 AT 08:00 CST ON APR 07	8.72 ON APR 07	0B ON JAN 01	3 770	1978
1979	56.6 B ON APR 21 *	22.7 B ON APR 21	0B ON JAN 01	8 740	1979
1980	2.41 AT 11:00 CST ON APR 05	1.70 ON APR 05	0B ON JAN 01	654	1980
1981	0.878B AT 04:30 CST ON FEB 24	0.680B ON FEB 27	0B ON JAN 01	765	1981
1982	---	21.7 ON JUN 06	0B ON JAN 01	7 700	1982
1983	4.19 B AT 20:45 CST ON APR 02	3.40 B ON APR 03	0B ON JAN 01	3 910	1983
1984	1.08 AT 07:30 CST ON MAR 28	0.765 ON MAR 28	0 ON JAN 01	443	1984
1985	13.3 B AT 08:00 CST ON MAR 13	9.34 B ON MAR 13	0 ON JAN 01	5 780	1985
1986	---	3.60 B ON MAR 24	0 ON JAN 01	4 560	1986
1987	17.2 B AT 14:00 CST ON APR 05	13.9 B ON APR 05	0 ON JAN 01	5 210	1987
1988	0.178 AT 18:30 CST ON MAR 29	0.170 ON MAR 30	0 ON JAN 01	206	1988
1989	---	2.27 B ON APR 08	0 ON JAN 01	1 230	1989
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		4 930	MEAN

CYPRESS RIVER AT CYPRESS RIVER - STATION NO. 05MH002

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	0.985	0.187	0.340	0.079	0.426	0.130	0.036	---	---	---	1957
1958	---	---	0.514	0.901	0.208	0.038	0.077	0.019	0.013	0.018	---	---	0.210	1958
1959	---	---	0.540	3.34	0.510	0.138	0.036	0.032	0.036	0.524	---	---	0.638	1959
1960	---	---	0.073	6.98	0.564	0.132	0.066	0	0	0	---	---	0.959	1960
MEAN	---	---	0.376	3.03	0.367	0.162	0.065	0.119	0.045	0.145	---	---	0.602	MEAN

LOCATION - LAT 49 33 00 N LONG 099 04 30 W DRAINAGE AREA, 402 km² NATURAL FLOW

CYPRESS RIVER AT CYPRESS RIVER - STATION NO. 05MH002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	3.06B ON MAR 30	0B ON MAR 01 *	4 450	1958
1959	---	14.4 B ON APR 05	0B ON MAR 01	13 500	1959
1960	---	17.7 ON APR 17 *	0B ON MAR 01	20 300	1960
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		12 800	MEAN

CYPRESS RIVER NEAR BRUXELLES - STATION NO. 05MH008

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	4.02	0.158	0.071	0.042	0.013	0.316	0.124	---	---	0.583	1965
1966	---	---	0.937	4.27	1.42	0.079	0.221	0.002	0	0	---	---	0.896	1966
1967	---	---	0.006	4.94	0.714	0.027	0.027	0	0	0	---	---	0.702	1967
1968	---	---	0.848	0.588	0.284	0.057	0.114	1.45	1.04	0.099	---	---	0.561	1968
1969	---	---	0	10.1	0.861	0.072	2.26	0.251	0.012	0.041	---	---	1.68	1969
1970	---	---	0	9.73	5.25	0.284	0.033	0	0	0	---	---	1.90	1970
1971	---	---	0	4.90	0.333	0.223	0.487	0.020	0.001	0.053	---	---	0.740	1971
1972	---	---	1.84	2.91	0.422	0.015	0	0.014	0	0	---	---	0.646	1972
1973	---	---	0.166	0.384	0.092	0.012	0.912	0.037	0.029	0.035	---	---	0.209	1973
1974	---	---	0	12.2	2.97	0.320	0.008	0	0	0	---	---	1.91	1974
1975	---	---	0	1.24	0.855	0.086	0.115	0	0	0.008	---	---	0.286	1975
1976	---	---	0.004	5.87	0.098	0.006	0	0	0	0	---	---	0.732	1976
1977	---	---	0	0.022	0.620	0.066	0	0	0.207	0.081	---	---	0.126	1977
1978	---	---	0.011	4.10	0.425	0.110	0.645	0.030	0	0	---	---	0.656	1978
1979	---	---	0	10.8	3.00	0.233	0.044	0	0	0	---	---	1.74	1979
1980	---	---	0	1.37	0.038	0	0	0.010	0.017	0.029	---	---	0.179	1980
1981	---	---	0.110	0.048	0.038	0.102	0.132	0.056	0.187	0.079	---	---	0.094	1981
1982	---	---	0.066	0.882	0.129	0.059	0.008	0	0	0.019	---	---	0.144	1982
1983	---	---	0.192	3.12	0.117	0.121	0.039	0	0	0	---	---	0.441	1983
1984	---	---	0.239	0.205	0.228	0.015	0	0	0	0.002	---	---	0.086	1984
1985	---	---	2.63	1.62	0.078	0.005	0.001	0.226	0.116	0.109	---	---	0.597	1985
1986	---	---	3.02	2.58	2.05	0.148	0.122	0.093	0.005	0.034	---	---	1.01	1986
1987	---	---	0.059	5.25	0.101	0.016	0	0.461	0.012	0.062	---	---	0.733	1987
1988	---	---	0.093	0.601	0.130	0.006	0	0	0	0	---	---	0.102	1988
1989	---	---	0	1.47	0.054	0.002	0	0	0	0	---	---	0.187	1989
1990	---	---	0.403	2.83	0.168	0.142	0.041	0	0	0	---	---	0.441	1990
MEAN	---	---	0.409	3.69	0.794	0.088	0.214	0.102	0.075	0.030	---	---	0.669	MEAN

LOCATION - LAT 49 26 46 N DRAINAGE AREA, 277 km^2
LONG 098 54 25 W NATURAL FLOW

CYPRESS RIVER NEAR BRUXELLES - STATION NO. 05MH008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	25.7 ON APR 13	0 B ON MAR 01 *	12 300	1965
1966	---	35.7 ON APR 01	0 B ON MAR 01	19 000	1966
1967	---	16.0 ON APR 21	0 B ON MAR 01	14 900	1967
1968	---	10.8 ON AUG 27	0 B ON MAR 01	11 900	1968
1969	---	72.5 ON APR 12	0 B ON MAR 01	35 600	1969
1970	---	43.0 ON APR 26	0 B ON MAR 01	40 100	1970
1971	---	26.2 B ON APR 10	0 B ON MAR 01	15 700	1971
1972	---	8.95 B ON MAR 20	0 B ON MAR 01	13 700	1972
1973	---	11.1 ON JUL 05	0 B ON MAR 01	4 420	1973
1974	---	73.9 ON APR 19 *	0 B ON MAR 01	40 500	1974
1975	4.90 AT 18:09 CST ON MAY 25	3.96 ON APR 16	0 B ON MAR 01	6 060	1975
1976	39.6 B AT 12:23 CST ON APR 06	29.7 B ON APR 07	0 ON JUN 02	15 500	1976
1977	4.45 AT 04:27 CST ON MAY 21	3.20 ON MAY 21	0 B ON MAR 01	2 660	1977
1978	---	17.8 B ON APR 08	0 B ON MAR 01	13 900	1978
1979	---	64.2 B ON APR 21	0 B ON MAR 01	36 700	1979
1980	9.72 AT 20:11 CST ON APR 07	7.65 ON APR 08	0 B ON MAR 01	3 800	1980
1981	1.05 AT 23:12 CST ON SEP 07	0.938 ON SEP 07	0.001 ON SEP 03	1 980	1981
1982	2.68B AT 20:00 CST ON APR 15	2.25 B ON APR 15	0 B ON MAR 01	3 040	1982
1983	9.41B AT 13:00 CST ON APR 06	7.91 B ON APR 09	0 B ON MAR 01	9 340	1983
1984	---	2.00 B ON MAR 24	0 B ON MAR 01	1 830	1984
1985	14.2 AT 12:56 CST ON MAR 26	11.6 B ON MAR 26	0 B ON MAR 01	12 600	1985
1986	21.7 B AT 19:41 CST ON MAR 29	19.7 B ON MAR 29	0 ON SEP 06	21 300	1986
1987	44.7 AT 10:45 CST ON APR 06 *	35.5 ON APR 06	0 ON JUN 15	15 500	1987
1988	3.08B AT 12:01 CST ON APR 05	2.15 ON APR 06	0 ON JUN 24	2 170	1988
1989	6.42 AT 11:04 CST ON APR 17	4.31 ON APR 17	0 B ON MAR 01	3 960	1989
1990	26.7 AT 08:30 CST ON APR 01	19.8 ON APR 01	0 B ON MAR 01	9 330	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		14 100	MEAN

CYPRESS RIVER NEAR CYPRESS RIVER - STATION NO. 05MH004

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	2.84	2.86	0.708	0.030	0	0	0	0	---	---	0.802	1961
1962	---	---	6.94	4.94	0.666	0.122	0.116	1.01	0.585	0.036	---	---	1.43	1962
1963	---	---	1.41	3.31	0.217	0.064	0.043	0.022	0.001	0.026	---	---	0.454	1963
1964	---	---	0	2.36	0.499	0.199	0.051	0.008	0.008	0.015	---	---	0.387	1964
1975	---	---	0.001	2.18	1.53	0.242	0.133	0.010	0.023	0.019	---	---	0.513	1975
1976	---	---	0.007	11.6	0.437	0.123	0.026	0.012	0	0	---	---	1.50	1976
1977	---	---	0.028	0.117	0.861	0.128	0.115	0.076	0.866	0.188	---	---	0.296	1977
1978	---	---	0.255	5.86	0.546	0.205	1.19	0.107	0.012	0.013	---	---	1.01	1978
1979	---	---	0	13.5	4.89	0.557	0.104	0.008	0.009	0.015	---	---	2.35	1979
1980	---	---	0.002	1.59	0.106	0.006	0.004	0.059	0.009	0.024	---	---	0.221	1980
1981	---	---	0.306	0.136	0.067	0.082	0.191	0.117	0.195	0.100	---	---	0.149	1981
1982	---	---	0.174	1.49	0.283	0.161	0.272	0.010	0.001	0.033	---	---	0.301	1982
1983	---	---	0.918	3.87	0.432	0.140	0.080	0	0	0	---	---	0.918	1983
1984	---	---	0.307	0.473	0.356	0.077	0.003	0.001	0.001	0.008	---	---	0.153	1984
1985	---	---	4.36	2.90	0.208	0.039	0.009	0.247	0.147	0.127	---	---	1.00	1985
1986	---	---	4.51	4.09	3.01	0.186	0.323	0.276	0.010	0.056	---	---	1.56	1986
1987	---	---	0.726	7.44	0.247	0.037	0.022	0.752	0.056	0.083	---	---	1.16	1987
1988	---	---	0.313	1.03	0.202	0.043	0.020	0	0	0.002	---	---	0.199	1988
1989	---	---	0	2.33	0.162	0.168	0.004	0	0.001	0	---	---	0.327	1989
1990	---	---	0.696	3.73	0.301	0.690	0.462	0.078	0	0	---	---	0.736	1990
MEAN	---	---	0.843	3.84	0.786	0.247	0.159	0.240	0.097	0.038	---	---	0.773	MEAN

LOCATION - LAT 49 35 31 N DRAINAGE AREA, 624 km²
LONG 099 02 00 W NATURAL FLOW

CYPRESS RIVER NEAR CYPRESS RIVER - STATION NO. 05MH004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	22.1 B CN MAR 27	0 B CN MAR 01 *	17 000	1961
1962	---	28.9 CN APR 21	0 B CN MAR 01	30 300	1962
1963	---	5.04B CN MAR 27	0 B CN MAR 01	9 600	1963
1964	---	4.28B CN APR 13	0 B CN MAR 01	8 180	1964
1975	---	4.96 CN APR 29	0.001B CN MAR 01	10 900	1975
1976	---	56.1 CN APR 08	0 CN AUG 04	31 800	1976
1977	---	4.19 CN MAY 22	0.001B CN MAR 01	6 270	1977
1978	---	10.1 CN APR 09	0 B CN MAR 01	21 400	1978
1979	---	84.7 B CN APR 22 *	0 B CN MAR 01	49 800	1979
1980	---	5.95B CN APR 09	0 CN JUN 14	4 680	1980
1981	2.21 AT 00:45 CST CN AUG 24	1.13 CN AUG 24	0.001 CN AUG 22	3 160	1981
1982	8.23 AT 04:58 CST CN JUL 17	1.08 CN JUL 17	0 B CN MAR 01	6 360	1982
1983	18.2 B AT 14:15 CST CN MAR 31	18.0 B CN MAR 31	0 B CN MAR 01	19 400	1983
1984	2.27B AT 22:38 CST CN APR 01	2.24B CN MAR 25	0 B CN MAR 01	3 230	1984
1985	22.9 B AT 07:45 CST CN MAR 27	21.1 B CN MAR 26	0 B CN MAR 01	21 200	1985
1986	24.6 B AT 00:27 CST CN MAR 30	23.6 B CN MAR 30	0.010 CN SEP 13	33 000	1986
1987	36.3 AT 00:05 CST CN APR 07 *	35.2 CN APR 07	0.002 CN JUL 05	24 500	1987
1988	3.73B AT 11:22 CST CN APR 06	3.18B CN APR 06	0 CN JUL 03	4 210	1988
1989	7.25 AT 07:48 CST CN APR 18	6.06 CN APR 18	0 B CN MAR 01	6 930	1989
1990	---	21.5 E CN APR 02	0 B CN MAR 01	15 600	1990
				16 400	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

DAUPHIN RIVER NEAR DAUPHIN RIVER - STATION NO. 05LM006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	4.09	1.48	2.11	30.3	29.6	26.7	115	112	52.5	56.3	70.0	66.9	47.7	1977
1978	71.0	74.2	94.9	129	109	69.2	64.4	39.4	30.2	26.1	22.2	12.3	61.7	1978
1979	12.7	18.4	22.9	72.1	255	313	312	272	200	151	135	84.0	155	1979
1980	82.0	112	129	144	107	53.2	30.6	27.9	46.6	63.2	62.4	42.6	74.9	1980
1981	36.7	38.2	44.5	54.3	40.5	26.2	15.6	15.0	15.5	19.5	23.0	19.4	29.0	1981
1982	5.51	0.659	3.06	36.9	58.7	34.3	25.2	15.0	12.3	14.2	16.2	7.71	19.2	1982
1983	6.50	4.44	6.73	19.8	51.9	99.8	121	126	96.6	65.1	50.4	19.7	56.0	1983
1984	18.4	23.0	27.9	74.8	64.6	52.0	92.8	112	70.6	51.8	40.2	32.5	55.2	1984
1985	32.5	40.4	60.9	137	122	110	101	70.5	58.0	64.2	60.9	54.6	76.1	1985
1986	58.5	64.5	73.3	132	192	244	244	205	106	68.6	43.7	45.1	123	1986
1987	50.7	51.8	61.4	123	138	137	84.2	40.9	19.3	21.3	26.9	18.1	64.0	1987
1988	12.7	14.2	22.1	60.2	77.5	107	95.7	46.9	23.1	14.9	10.3	4.70	40.8	1988
1989	1.50	1.72	3.62	20.8	31.9	21.2	21.3	18.5	20.3	17.7	14.2	12.6	15.5	1989
1990	9.74	14.5	21.7	54.7	73.8	57.0	67.0	63.4	56.2	41.1	29.7	18.9	42.5	1990
MEAN	28.7	32.8	41.0	77.8	96.5	96.3	99.3	83.2	57.7	48.2	43.2	31.4	61.5	MEAN

LOCATION - LAT 52 00 00 N DRAINAGE AREA, 82 400 km²
LONG 098 19 20 W REGULATED SINCE 1976

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "DAUPHIN RIVER NEAR ANAMA BAY"

DAUPHIN RIVER NEAR DAUPHIN RIVER - STATION NO. 05LM006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	153 AT 04:07 CST ON AUG 04	151 ON AUG 04	1.02 B ON MAR 09	1 500 000	1977
1978	156 AT 03:00 CST ON APR 28	149 ON APR 25	10.0 B ON DEC 11	1 950 000	1978
1979	---	320 E ON JUN 12 *	11.3 B ON JAN 18	4 880 000	1979
1980	---	152 B ON APR 06	15.0 E ON AUG 16	2 370 000	1980
1981	---	57.3E ON APR 15	9.87 E ON SEP 22	915 000	1981
1982	88.1 AT 15:12 CST ON APR 24	84.2 ON APR 29	0.320B ON FEB 14 *	606 000	1982
1983	148 AT 12:50 CST ON JUN 29	137 ON JUN 19	3.63 B ON FEB 20	1 760 000	1983
1984	125 AT 06:15 CST ON AUG 12	123 ON AUG 12	16.6 B ON JAN 25	1 740 000	1984
1985	159 AT 07:16 CST ON APR 06	157 B ON APR 06	30.8 B ON JAN 05	2 400 000	1985
1986	256 AT 08:35 CST ON JUN 25 *	254 ON JUN 25	35.6 B ON NOV 09	3 890 000	1986
1987	156 B AT 17:18 CST ON APR 08	149 ON MAY 17	11.6 ON OCT 10	2 020 000	1987
1988	118 AT 13:10 CST ON JUN 17	116 ON JUN 17	2.13 B ON DEC 31	1 290 000	1988
1989	51.9B AT 00:31 CST ON APR 23	47.7B ON APR 23	0.641B ON FEB 08	489 000	1989
1990	105 B AT 05:45 CST ON APR 22	95.1B ON APR 22	8.56 B ON JAN 12	1 340 000	1990
				1 940 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

DEAD CREEK NEAR LEE RIVER NORTH OF PINAWA - STATION NO. 05PF065

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1986	0.078	0.052	0.165	3.23	2.29	0.086	0.010	0.002	0.012	0.028	0.123	0.105	0.514	1986
1987	0.042	0.018	0.188	1.28	0.112	0.053	0.017	0.011	0.001	0.003	0.010	0.015	0.144	1987
1988	0.002	0.002	0.002	0.215	0.088	0.006	0.062	0	0.017	0.004	0.031	0.019	0.037	1988
1989	0.007	0.005	0.006	1.16	1.33	1.04	0.169	0.046	0.003	0.002	0.034	0.013	0.318	1989
1990	0.007	0.003	0.089	0.141	0.213	2.35	0.346	0.003	0.001	0.002	0.001	0.005	0.262	1990
MEAN	0.027	0.016	0.090	1.21	0.807	0.707	0.121	0.012	0.007	0.008	0.040	0.031	0.255	MEAN

LOCATION - LAT 50 15 04 N
LONG 095 53 10 W NATURAL FLOW

DEAD CREEK NEAR LEE RIVER NORTH OF PINAWA - STATION NO. 05PF065

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1986	12.0 ON APR 30 *	11.6 ON APR 30 *	0 E ON AUG 25 *	16 200	1986
1987	---	3.63 ON APR 11	0.001E ON SEP 05	4 560	1987
1988	---	0.462 ON APR 08	0 ON JUL 26	1 180	1988
1989	---	5.18 E ON MAY 28	0 E ON SEP 18	10 000	1989
1990	---	8.02 E ON JUN 22	0 B ON FEB 23	8 260	1990
				8 040	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

DEAD LAKE DRAIN NEAR GLADSTONE - STATION NO. 05LL023

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	15.6	0.497	0	0	0	0	0	---	---	1.97	1974
1975	---	---	0	0.421	1.04	0.004	0	0	0.003	0.001	---	---	0.184	1975
1976	---	---	0	10.0	0.005	0	0	0	0	0	---	---	1.23	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.114	0	0	0	0	0	0	---	---	0.014	1978
1979	---	---	0	20.6	1.89	0.013	0	0	0	0	---	---	2.76	1979
1980	---	---	0	0.002	0	0	0	0	0	0	---	---	0	1980
1981	---	---	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.370	0	0	0	0	0	0	---	---	0.045	1982
1983	---	---	0	6.72	0.015	0	0	0	0	0	---	---	0.825	1983
1984	---	---	0.001	0.001	0.130	0	0	0	0	0	---	---	0.017	1984
1985	---	---	0	0	0	0	0	0	0	0	---	---	0	1985
MEAN	---	---	0	4.49	0.298	0.001	0	0	0	0	---	---	0.587	MEAN

LOCATION - LAT 50 10 59 N DRAINAGE AREA, 3.37 km^2
LONG 098 56 58 W NATURAL FLOW

DEAD LAKE DRAIN NEAR GLADSTONE - STATION NO. 05LL023

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	138 ON APR 18	0B ON MAR 01 *	41 800	1974
1975	---	12.9 ON MAY 01	0B ON MAR 01	3 890	1975
1976	---	55.2 B ON APR 07	0B ON MAR 01	26 100	1976
1977	---	0 ON MAR 01	0 ON MAR 01	0	1977
1978	---	1.25 B ON APR 11	0B ON MAR 01	296	1978
1979	---	161 B ON APR 23 *	0B ON MAR 01	58 400	1979
1980	---	0.010B ON APR 07	0B ON MAR 01	6.13	1980
1981	---	0 B ON MAR 01	0B ON MAR 01	0	1981
1982	---	4.89 B ON APR 16	0B ON MAR 01	960	1982
1983	60.5 AT 23:40 CST ON APR 22 *	52.3 ON APR 23	0B ON MAR 01	17 500	1983
1984	0.263 AT 02:31 CST ON MAY 13	0.255 ON MAY 13	0B ON MAR 01	353	1984
1985	---	0 B ON MAR 01	0B ON MAR 01	0	1985
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		12 400	MEAN

DEADHORSE CREEK AT MORDEN - STATION NO. 05OC015

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	1.40	1.83	1.25	0.041	0.055	0.005	0.003	0.003	---	---	0.572	1966
1967	---	---	0.334	1.98	0.482	0.060	0	0.001	0	0	---	---	0.353	1967
1968	---	---	0.215	0.063	0.065	0	0.001	1.14	0.373	0.029	---	---	0.236	1968
1969	---	---	0	4.05	0.074	0.949	0.437	0.007	0	0	---	---	0.678	1969
1970	---	---	0	5.40	0.866	0.242	0.200	0.033	0.009	0.006	---	---	0.831	1970
1971	---	---	0	4.45	0.060	0.133	0.014	0.011	0.007	0.020	---	---	0.575	1971
1978	---	---	0.004	0.941	0.317	0.207	0.015	0.006	0.052	0	---	---	0.190	1978
1979	---	---	0	4.27	1.12	0.214	0.110	0	0	0	---	---	0.705	1979
1980	---	---	0	0.131	0	0	0	0	0.083	0.006	---	---	0.027	1980
1981	---	0.001	0.003	0.074	0.112	0.020	0	0.109	0.001	0.017	---	---	0.034	1981
1982	---	---	0.041	0.333	0.035	0.169	0.044	0.001	0.078	0.025	---	---	0.090	1982
1983	---	---	0.110	1.10	0.034	0.005	0.001	0	0	0	---	---	0.153	1983
1984	---	---	0.003	0.004	0.005	0.004	0	0	0	0.029	---	---	0.006	1984
1985	---	---	0.524	0.087	0.012	0.003	0.008	0.609	0.005	0.008	---	---	0.159	1985
1986	---	---	1.43	0.699	0.773	0.010	0.005	0.001	0	0	---	---	0.368	1986
1987	---	---	0.044	0.983	0.015	0	0.015	0.005	0.002	0.001	---	---	0.130	1987
1988	---	---	0.002	0.004	0.001	0	0	0	0	0	---	---	0.001	1988
1989	---	---	0	0.014	0.003	0.002	0	0	0	0	---	---	0.002	1989
1990	---	---	0.009	0.005	0.003	0.011	0.002	0	0	0	---	---	0.004	1990
MEAN	---	0.001	0.217	1.39	0.275	0.109	0.048	0.101	0.032	0.008	---	---	0.269	MEAN

LOCATION - LAT 49 11 47 N DRAINAGE AREA, 138 km^2
LONG 098 06 38 W REGULATED

DEADHORSE CREEK AT MORDEN - STATION NO. 05OC015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	14.2 B ON MAR 31	0B ON MAR 01 *	12 100	1966
1967	---	26.9 ON APR 20	0B ON MAR 01	7 470	1967
1968	---	14.0 ON AUG 25	0B ON MAR 01	5 000	1968
1969	---	41.3 B ON APR 09	0B ON MAR 01	14 400	1969
1970	---	41.9 ON APR 26 *	0B ON MAR 01	17 600	1970
1971	---	39.6 ON APR 11	0B ON MAR 01	12 200	1971
1978	---	3.51 ON APR 10	0B ON MAR 01	4 030	1978
1979	---	33.5 B ON APR 19	0B ON MAR 01	14 900	1979
1980	---	0.892B ON APR 07	0B ON MAR 01	570	1980
1981	0.890 AT 16:48 CST ON MAY 25	0.798 ON MAY 25	0B ON MAR 01	711	1981
1982	1.42 AT 00:55 CST ON SEP 20	1.18 ON SEP 20	0B ON MAR 01	1 900	1982
1983	8.50 AT 22:24 CST ON APR 06	6.63 ON APR 06	0B ON MAR 01	3 240	1983
1984	0.435 AT 23:00 CST ON OCT 15	0.409 ON OCT 16	0B ON MAR 01	120	1984
1985	18.0 AT 10:33 CST ON AUG 17	11.2 ON AUG 17	0B ON MAR 01	3 360	1985
1986	26.6 B AT 01:24 CST ON MAR 23 *	11.9 B ON MAR 23	0B ON MAR 01	7 750	1986
1987	11.2 B AT 12:19 CST ON APR 05	7.61 B ON APR 05	0B ON MAR 01	2 760	1987
1988	0.046B AT 13:53 CST ON APR 01	0.019B ON MAR 31	0B ON MAR 01	16.8	1988
1989	---	0.061B ON APR 14	0B ON MAR 01	50.7	1989
1990	0.248B AT 19:26 CST ON MAR 30	0.083B ON MAR 30	0B ON MAR 01	81.8	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		5 700	MEAN

DEADHORSE CREEK NEAR MORDEN - STATION NO. 05OC023

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	0.826	1.10	0.202	0.007	0.019	0.001	0	0.001	---	---	0.268	1972
1973	---	---	0.010	0.006	0.007	0.003	0.001	0	0	0.001	---	---	0.004	1973
1974	---	---	0	4.77	3.14	0.241	0.001	0	0	0	---	---	1.01	1974
1975	---	---	0	0.459	0.343	0.579	0.068	0.023	0.024	0.065	---	---	0.193	1975
1976	---	---	0.009	2.02	0.034	0.017	0.002	0	0	0	---	---	0.256	1976
MEAN	---	---	0.169	1.67	0.745	0.169	0.018	0.005	0.005	0.013	---	---	0.346	MEAN

LOCATION - LAT 49 13 00 N DRAINAGE AREA, 149 km²
LONG 098 05 30 W REGULATED

DEADHORSE CREEK NEAR MORDEN - STATION NO. 05OC023

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	5.18 B ON MAR 19	0B ON MAR 01 *	5 670	1972
1973	---	0.057B ON MAR 13	0B ON MAR 01	74.2	1973
1974	---	37.4 ON MAY 21 *	0B ON MAR 01	21 400	1974
1975	1.94 AT 03:39 CST ON JUN 23	1.87 ON APR 29	0B ON MAR 01	4 090	1975
1976	22.5 B AT 00:00 CST ON APR 05 *	15.5 B ON APR 05	0B ON MAR 01	5 410	1976
				7 330	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

DEADHORSE CREEK NEAR ROSENFELD - STATION NO. 05OC016

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	1.52	0.663	0.305	0.029	0.025	2.12	1.77	0.065	---	---	0.813	1968
1969	---	---	0	14.3	0.409	0.582	1.50	0.026	0	0.008	---	---	2.07	1969
1970	---	---	0	16.2	4.76	4.62	2.13	0.290	0.006	0.027	---	---	3.46	1970
1971	---	---	0	21.9	0.165	0.311	0.077	0.006	0	0.009	---	---	2.76	1971
1972	---	---	1.54	3.58	0.233	0.047	0	0	0	0	---	---	0.669	1972
1973	---	---	0.573	0.028	0.002	0.152	0.001	0	0.274	0.034	---	---	0.133	1973
1974	---	---	0	47.8	16.4	0.353	0.007	0	0	0	---	---	7.98	1974
1975	---	---	0	2.26	0.508	0.234	0.168	0.001	0	0	---	---	0.391	1975
1976	---	---	0	10.1	0.033	0.167	0.008	0.003	0.008	0	---	---	1.27	1976
1977	---	---	0.038	0.286	0.022	0.099	0.015	0	0.136	0.070	---	---	0.082	1977
1978	---	---	0.033	2.52	0.509	0.793	0.213	0	0.046	0	---	---	0.506	1978
1979	---	---	3	39.4	4.31	0.748	0.257	0.007	0.037	0.188	---	---	5.52	1979
1980	---	---	0	1.29	0.482	0.052	0.039	0.043	0.041	0.009	---	---	0.242	1980
1981	---	---	0.415	0.036	0.289	0.125	0.002	0	0	0	---	---	0.109	1981
1982	---	---	1.14	6.31	0.071	3.51	0.130	0.028	0	0.211	---	---	1.40	1982
1983	---	---	1.39	9.60	0.082	0.205	0.091	0	0	0	---	---	1.40	1983
1984	---	---	0.276	0.381	0.015	0.132	0	0	0	0	---	---	0.100	1984
1985	---	---	4.05	0.268	0.009	0.131	0.022	0.537	0.063	0.223	---	---	0.669	1985
1986	---	---	4.22	1.38	2.17	0.069	0.191	0.587	0	0	---	---	1.08	1986
1987	---	---	0.249	11.5	0.075	0.161	0.053	0.002	0.009	0.014	---	---	1.47	1987
1988	---	---	0.066	0.585	0.035	0.020	0.013	0	0	0.002	---	---	0.089	1988
1989	---	---	0	2.39	0.026	0.153	0.008	0	0.006	0.010	---	---	0.317	1989
1990	---	---	0.188	0.620	0.027	2.05	0.460	0.033	0.034	0.009	---	---	0.422	1990
MEAN	---	---	0.683	8.41	1.35	0.641	0.235	0.160	0.106	0.038	---	---	1.43	MEAN

LOCATION - LAT 49 15 10 N DRAINAGE AREA, 913 km²
LONG 097 33 00 W NATURAL FLOW

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "HESPELER FLOODWAY NEAR ROSENFELD"

DEADHORSE CREEK NEAR ROSENFELD - STATION NO. 05OC016

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	17.8 B ON MAR 27	0B ON MAR 01 *	17 200	1968
1969	---	81.6 ON APR 11	0B ON MAR 01	43 800	1969
1970	---	68.8 ON APR 26	0B ON MAR 01	73 300	1970
1971	---	182 B ON APR 13	0B ON MAR 01	58 300	1971
1972	---	9.85B ON APR 18	0B ON MAR 01	14 200	1972
1973	---	6.29 ON SEP 24	0B ON MAR 01	2 810	1973
1974	---	254 ON APR 17	0B ON MAR 01	169 000	1974
1975	---	9.15B ON APR 17	0B ON MAR 01	8 280	1975
1976	---	55.8 B ON APR 06	0B ON MAR 01	26 900	1976
1977	---	1.27B ON APR 09	0B ON MAR 01	1 740	1977
1978	---	10.5 B ON APR 09	0B ON MAR 01	10 700	1978
1979	---	288 ON APR 20 *	0B ON MAR 01	117 000	1979
1980	14.4 AT 12:27 CST ON MAY 29	9.09 ON MAY 29	0B ON MAR 01	5 120	1980
1981	2.77 AT 01:55 CST ON MAY 26	2.23 ON MAY 26	0 ON APR 27	2 310	1981
1982	---	32.6 B ON APR 13	0B ON MAR 01	29 700	1982
1983	62.0 B AT 11:00 CST ON APR 07	53.4 B ON APR 07	0B ON MAR 01	29 600	1983
1984	---	2.41B ON MAR 28	0B ON MAR 01	2 110	1984
1985	---	30.1 B ON MAR 19	0B ON MAR 01	14 200	1985
1986	---	29.1 B ON MAR 28	0B ON MAR 01	23 000	1986
1987	135 AT 23:30 CST ON APR 05 *	84.2 B ON APR 05	0B ON MAR 01	31 200	1987
1988	7.38B AT 00:36 CST ON APR 04	5.24B ON APR 03	0B ON MAR 01	1 880	1988
1989	29.8 B AT 02:00 CST ON APR 16	23.8 B ON APR 16	0B ON MAR 01	6 710	1989
1990	17.1 AT 13:23 CST ON JUN 13	13.4 ON JUN 13	0 ON APR 27	8 930	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		30 300	MEAN

DEER RIVER NORTH OF BELCHER - STATION NO. 06FD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	0.600	0.552	0.506	0.480	22.4	19.8	16.7	39.4	38.0	9.04	1.97	1.75	12.7	1978
1979	1.46	1.07	0.808	0.712	27.4	58.9	22.1	11.0	13.2	19.6	7.04	2.53	13.9	1979
1980	0.893	0.605	0.506	14.5	---	---	19.8	---	25.5	18.6	5.65	2.19	---	1980
1981	1.23	0.851	0.671	0.519	56.3	29.8	19.5	12.2	10.8	28.3	9.67	4.97	14.4	1981
1982	0.797	0.459	0.167	0.015	---	64.3	20.7	5.53	7.67	12.4	3.32	2.80	---	1982
1983	1.71	1.31	1.07	0.959	3.27	164	10.2	22.2	79.0	30.1	10.3	4.32	27.9	1983
1984	2.75	1.37	0.780	18.0	79.5	46.8	8.48	2.66	2.69	4.84	1.96	0.955	14.3	1984
1985	0.611	0.355	0.236	0.402	67.2	33.7	9.55	3.49	4.70	8.69	2.03	0.819	11.1	1985
1986	0.498	0.394	0.377	0.388	84.2	62.4	60.4	33.5	16.8	7.63	2.71	1.30	22.7	1986
1987	0.968	0.791	0.664	---	---	24.1	9.32	---	---	---	6.10	2.28	---	1987
1988	0.898	0.560	0.444	0.435	---	46.8	9.44	19.3	8.71	5.35	1.74	0.792	---	1988
1989	0.523	0.388	0.258	0.160	72.5	57.0	---	---	---	---	6.17	1.40	---	1989
1990	0.754	0.420	0.175	0.034	---	---	19.5	12.0	8.41	19.3	9.01	1.99	---	1990
MEAN	1.05	0.702	0.512	3.05	51.6	55.2	19.5	16.1	19.6	14.9	5.36	1.92	16.7	MEAN

LOCATION - LAT 58 00 54 N LONG 094 11 44 W DRAINAGE AREA, 1 880 km^2 NATURAL FLOW

DEER RIVER NORTH OF BELCHER - STATION NO. 06FD002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	81.6 AT 12:45 CST ON AUG 22	81.0 ON AUG 21	0.453B ON APR 08	399 000	1978
1979	---	129 B ON MAY 27	0.677B ON APR 12	437 000	1979
1980	---	---	0.467B ON APR 09	---	1980
1981	---	205 B ON MAY 23	0.391B ON MAY 11	456 000	1981
1982	---	---	0.000B ON APR 11 *	---	1982
1983	---	324 B ON JUN 08 *	0.883B ON MAY 20	879 000	1983
1984	209 AT 01:00 CST ON MAY 22 *	206 ON MAY 21	0.574B ON APR 08	451 000	1984
1985	---	89.9E ON MAY 16	0.100B ON APR 21	349 000	1985
1986	---	283 B ON MAY 18	0.373B ON MAR 04	717 000	1986
1987	---	---	---	---	1987
1988	---	---	---	---	1988
1989	---	206 B ON MAY 19	0.142B ON APR 18	---	1989
1990	91.5 AT 10:51 CST ON JUN 15	91.0 ON JUN 15	---	---	1990
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		527 000	MEAN

DEVILS CREEK NEAR LIBAU - STATION NO. 05OJ016

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	0.078	7.21	0.559	0.322	0.199	0.043	0.149	0.220	---	---	1.08	1971
1972	---	---	0.014	3.49	0.177	0.090	0.042	0.046	0.025	0.064	---	---	0.485	1972
1973	---	---	1.23	0.248	0.074	3.42	0.273	0.089	0.310	0.594	---	---	0.772	1973
1974	---	---	0.02?	10.1	5.55	0.437	0.079	0.062	0.069	0.061	---	---	2.03	1974
1975	---	---	0.016	2.63	0.363	2.47	0.519	0.103	0.052	0.076	---	---	0.767	1975
1976	---	---	0	4.02	0.155	1.07	0.107	0.042	0.044	0.030	---	---	0.672	1976
1977	---	---	0.088	0.411	0.072	0.094	0.106	0.083	1.37	0.324	---	---	0.314	1977
1978	---	---	0	6.56	0.890	0.364	0.704	0.057	0.053	0.064	---	---	1.07	1978
1979	---	---	0	7.82	2.14	1.28	0.100	0.056	0.126	0.056	---	---	1.43	1979
1980	---	---	0	2.90	0.103	0.036	0.025	0.024	0.033	0.032	---	---	0.387	1980
1981	---	---	0.289	0.079	0.069	0.049	0.031	0.030	0.021	0.099	---	---	0.084	1981
1982	---	---	0.204	1.79	0.057	0.114	0.107	0.024	0.027	0.118	---	---	0.301	1982
1983	---	---	0.396	3.47	0.130	0.179	0.168	0.030	0.043	0.029	---	---	0.547	1983
1984	---	---	0.230	0.476	0.053	0.473	0.105	0.031	0.034	0.157	---	---	0.193	1984
1985	---	---	1.33	1.03	0.268	0.073	0.145	0.733	0.506	0.487	---	---	0.573	1985
1986	---	---	1.86	3.90	1.46	0.162	0.093	0.065	0.056	0.074	---	---	0.954	1986
1987	---	---	0.021	3.79	0.088	0.048	0.506	1.68	0.148	0.094	---	---	0.790	1987
1988	---	---	0.060	0.925	0.081	0.040	0.044	---	---	0.031	---	---	---	1988
1989	---	---	0.003	1.79	0.131	0.094	0.038	0.018	0.017	0.020	---	---	0.259	1989
1990	---	---	0.177	0.410	0.061	0.704	0.162	0.027	0.025	0.033	---	---	0.198	1990
MEAN	---	---	0.301	3.15	0.624	0.576	0.178	0.171	0.164	0.133	---	---	0.679	MEAN

LOCATION - LAT 50 11 40 N LONG 096 42 50 W DRAINAGE AREA, 239 km² NATURAL FLOW

REMARKS - PUBLISHED AS "DEVIL CREEK" PRIOR TO 1979

DEVILS CREEK NEAR LIBAU - STATION NO. 05OJ016

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	32.8 AT 21:29 CST ON APR 10 *	29.2 ON APR 10	0.012 ON AUG 11	22 800	1971
1972	---	15.5 ON APR 15	0 B ON MAR 01 *	10 300	1972
1973	---	34.8 ON JUN 20	0 B ON MAR 01	16 300	1973
1974	---	58.3 ON APR 21 *	0.017B ON MAR 01	42 900	1974
1975	19.9 AT 02:38 CST ON JUN 23	17.0 ON JUN 23	0.016B ON MAR 01	16 200	1975
1976	---	17.0 B ON APR 05	0 B ON MAR 01	14 200	1976
1977	---	10.5 ON SEP 09	0 B ON MAR 01	6 650	1977
1978	17.8 AT 22:17 CST ON APR 15	15.7 ON APR 17	0 B ON MAR 01	22 700	1978
1979	---	47.8 B ON APR 19	0 B ON MAR 01	30 200	1979
1980	---	10.7 B ON APR 10	0 B ON MAR 01	8 190	1980
1981	0.445 AT 13:00 CST ON MAR 13	0.445B ON MAR 13	0.005 ON AUG 26	1 780	1981
1982	9.69 B AT 22:22 CST ON APR 14	7.05 B ON APR 14	0 B ON MAR 01	6 360	1982
1983	16.0 B AT 19:23 CST ON APR 05	13.2 B ON APR 05	0 B ON MAR 01	11 600	1983
1984	2.17 AT 22:28 CST ON JUN 21	1.84 B ON MAR 29	0 B ON MAR 01	4 090	1984
1985	6.58 B AT 02:08 CST ON MAR 25	5.58 B ON MAR 24	0 B ON MAR 01	12 100	1985
1986	---	17.7 B ON MAR 29	0 B ON MAR 01	20 200	1986
1987	---	27.4 B ON APR 06	0 B ON MAR 01	16 700	1987
1988	---	5.00 B ON APR 04	0 B ON MAR 01	---	1988
1989	---	6.37 B ON APR 19	0.002B ON MAR 04	5 490	1989
1990	6.54 AT 23:32 CST ON JUN 02	2.88 ON JUN 03	0 B ON MAR 01	4 190	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		14 400	MEAN

DEVILS CREEK NEAR SEMPLE - STATION NO. 05OJ012

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0	5.11	0.546	0.009	0.001	0.005	0.010	0.024	---	---	0.700	1967
1968	---	---	0.563	0.947	0.444	0.301	0.326	2.32	0.547	0.298	---	---	0.720	1968
1969	---	---	0	5.43	0.744	0.175	0.025	0.008	0.057	0.162	---	---	0.812	1969
1970	---	---	0	3.97	1.18	0.784	0.163	0.136	0.722	0.296	---	---	0.895	1970
MEAN	---	---	0.141	3.86	0.729	0.317	0.129	0.617	0.334	0.195	---	---	0.782	MEAN

LOCATION - LAT 50 13 20 N LONG 096 43 30 W DRAINAGE AREA, 281 km² NATURAL FLOW

REMARKS - PUBLISHED AS "DEVIL CREEK" PRIOR TO 1979

DEVILS CREEK NEAR SEMPLE - STATION NO. 05OJ012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	15.2 ON APR 15	DB ON MAR 01 *	14 800	1967
1968	---	15.3 ON AUG 25	DB ON MAR 01	15 200	1968
1969	---	23.7B ON APR 10 *	DB ON MAR 01	17 200	1969
1970	---	12.1B ON APR 17	DB ON MAR 01	18 900	1970
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		16 500	MEAN

DOMAIN DRAIN NEAR DOMAIN - STATION NO. 05OG009

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.139	0.017	0.060	0.027	0.021	0.003	0	0	---	---	0.034	1981
1982	---	---	0.081	0.384	0	0	0	0	0	0.005	---	---	0.056	1982
1983	---	---	0.210	1.79	0	0.001	0	0	0	0	---	---	0.246	1983
1984	---	---	0.024	0.159	0.017	0.030	0.010	0	0	0	---	---	0.030	1984
1985	---	---	1.01	0.196	0	0	0	0.009	0.074	0.103	---	---	0.175	1985
1986	---	---	0.386	0.645	0.157	0.008	0.049	0.003	0	0	---	---	0.155	1986
1987	---	---	0.059	1.88	0	0	0.002	0.001	0	0	---	---	0.238	1987
MEAN	---	---	0.273	0.724	0.035	0.009	0.012	0.002	0.011	0.015	---	---	0.134	MEAN

LOCATION - LAT 49 39 32 N DRAINAGE AREA, 67.9 km²
LONG 097 17 20 W NATURAL FLOW

DOMAIN DRAIN NEAR DOMAIN - STATION NO. 05OG009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	0.648 AT 12:06 CST ON MAY 23	0.434 ON MAY 24	0B ON MAR 01 *	729	1981
1982	3.92 AT 16:56 CST ON APR 14	2.87 ON APR 15	0B ON MAR 01	1 230	1982
1983	11.4 AT 01:06 CST ON APR 07	10.2 ON APR 06	0B ON MAR 01	5 200	1983
1984	---	0.757B ON APR 02	0A ON MAR 01	625	1984
1985	7.79 B AT 20:41 CST ON MAR 25	6.52 B ON MAR 25	0B ON MAR 01	3 710	1985
1986	3.42 AT 00:00 CST ON APR 02	3.03 ON APR 02	0B ON MAR 01	1 290	1986
1987	15.7 AT 22:17 CST ON APR 06 *	12.0 ON APR 07 *	0B ON MAR 01	5 040	1987
	B - ICE CONDI[illegible]B	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 830	MEAN

DRIFTING RIVER NEAR ASHVILLE - STATION NO. 05LJ017

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	3.15	2.85	4.78	1.86	0.076	0.545	0.667	0.292	---	---	1954
1955	---	---	---	3.45	2.25	0.794	0.058	0	0.003	0.001	0.001	---	---	1955
1956	---	---	0.048	1.31	5.77	0.669	0.310	0.013	0.070	0.096	0.212	---	1.06	1956
1957	---	---	0.087	3.65	0.936	0.158	0.037	0	0	0	---	---	0.600	1957
1958	---	---	0.104	0.340	0.060	0.034	0.005	0	0	0	---	---	0.067	1958
1959	---	---	0.485	0.544	0.286	0.890	0.340	0	0	0.015	---	---	0.315	1959
1960	---	---	0	3.63	1.40	0.548	0.014	0	0	0	---	---	0.690	1960
1961	---	---	0.003	0.075	0.037	0	0	0	0	0	---	---	0.014	1961
1962	---	---	0	0.796	0.083	0.073	0.029	0.001	0	0	---	---	0.121	1962
1963	---	---	0.184	0.490	0.383	0.354	0.188	0.001	0	0	---	---	0.194	1963
1964	---	---	0	0.278	0.125	0.024	0	0	0	0	---	---	0.053	1964
1965	---	---	0	0.744	0.352	0.278	0.308	0.277	0.651	0.441	---	---	0.379	1965
1966	---	---	0.344	3.35	0.999	0.532	0.269	0.072	0.054	0.007	---	---	0.696	1966
1967	---	---	0.008	4.33	1.97	0.101	0.006	0	0	0	---	---	0.794	1967
1968	---	---	0.128	0.327	0.048	0.026	0	0	0	0	---	---	0.066	1968
1969	---	---	0	1.74	0.181	0.081	0.483	0.166	0.006	0.078	---	---	0.339	1969
1970	---	---	0.026	4.49	2.76	0.848	0.363	0.129	0	0.008	---	---	1.07	1970
1971	---	---	0.003	2.84	0.321	0.869	0.034	0	0	0	---	---	0.499	1971
1972	---	---	0.232	2.43	0.931	0.047	0	0	0	0	---	---	0.451	1972
1973	---	---	0.046	0.062	0.015	0.185	0.016	0.002	0.023	0.093	---	---	0.055	1973
1974	---	---	0	4.60	4.40	0.808	0	0	0	0	---	---	1.22	1974
1975	---	---	0	3.54	1.78	1.50	0.097	0	0.332	0.309	---	---	0.934	1975
1976	---	---	0.006	3.94	0.409	4.97	0.216	0	0	0	---	---	1.17	1976
1977	---	---	0	0.016	0.029	0.014	0.253	0.005	0.021	0.022	---	---	0.045	1977
MEAN	---	---	0.077	2.10	1.18	0.774	0.203	0.031	0.071	0.072	0.168	---	0.492	MEAN

LOCATION - LAT 51 19 10 N DRAINAGE AREA, 252 km²
LONG 100 22 00 W NATURAL FLOW

DRIFTING RIVER NEAR ASHVILLE - STATION NO. 05LJ017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	13.9 ON APR 17	0B ON APR 01 *	---	1954
1955	---	8.33 B ON APR 04	0 ON JUL 17	---	1955
1956	---	12.2 ON MAY 09	0 ON AUG 07	22 500	1956
1957	---	8.95 ON APR 26	0B ON MAR 01	12 700	1957
1958	---	1.53 ON APR 02	0B ON MAR 01	1 420	1958
1959	---	3.77 ON JUN 29	0B ON MAR 01	6 680	1959
1960	---	12.7 ON APR 13	0B ON MAR 01	14 600	1960
1961	---	0.181B ON APR 14	0B ON MAR 01	303	1961
1962	---	6.09 B ON APR 20	0B ON MAR 01	2 560	1962
1963	---	1.59 ON APR 10	0B ON MAR 01	4 160	1963
1964	---	0.816B ON APR 19	0B ON MAR 01	1 120	1964
1965	---	2.58 ON APR 13	0B ON MAR 01	8 030	1965
1966	---	24.1 ON APR 22	0 ON JUL 29	14 700	1966
1967	---	25.4 B ON APR 27 *	0 ON JUL 10	16 800	1967
1968	---	0.971B ON MAR 29	0B ON MAR 01	1 390	1968
1969	---	11.9 B ON APR 13	0B ON MAR 01	7 170	1969
1970	---	20.7 ON APR 25	0 ON AUG 15	22 600	1970
1971	---	15.9 B ON APR 11	0 ON JUL 22	10 600	1971
1972	---	6.37 B ON APR 16	0B ON MAR 01	9 540	1972
1973	---	0.818 ON JUN 21	0B ON MAR 01	1 160	1973
1974	---	24.5 B ON APR 19	0B ON MAR 01	25 800	1974
1975	---	10.4 B ON APR 20	0B ON MAR 01	19 800	1975
1976	---	25.4 ON JUN 14	0 ON JUL 28	24 800	1976
1977	---	2.42 ON JUL 15	0B ON MAR 01	961	1977
				10 400	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

EAST FISHER RIVER NEAR HODGSON - STATION NO. 05BD004

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	----	----	----	0.874	0.256	0.191	0.194	0.124	0.107	0.176	----	----	----	1961
1962	----	----	---	1.86	0.376	0.352	0.236	0.215	0.120	0.284	----	---	---	1962
1963	----	----	0.581	6.96	0.990	3.87	0.537	0.529	0.506	0.375	----	----	1.06	1963
1964	----	----	0.173	1.92	1.02	0.535	0.454	0.418	0.323	0.428	----	----	0.907	1964
1965	----	----	0.057	3.29	1.05	0.992	0.696	0.383	0.351	0.279	----	----	1.34	1965
1966	----	----	0.145	2.13	1.38	0.385	0.358	0.211	0.183	0.211	----	----	1.01	1966
1967	----	----	0.074	4.05	0.917	0.346	0.252	0.237	0.152	0.197	----	----	1.33	1967
1968	----	----	0.504	1.71	0.758	0.569	0.586	0.362	0.524	0.279	----	----	0.882	1968
1969	----	----	0.110	3.68	0.457	0.462	0.291	0.867	0.419	0.300	----	----	1.16	1969
1970	----	----	0.133	4.36	1.22	0.506	0.394	0.255	0.193	0.184	----	----	1.54	1970
1971	----	----	0.068	2.24	0.840	0.344	0.256	0.169	0.117	0.138	----	----	0.689	1971
1972	----	----	0.289	4.68	0.845	0.344	0.231	0.224	0.158	0.137	----	----	1.38	1972
1973	----	----	0.522	0.358	0.245	0.485	----	----	----	----	----	----	0.420	1973
1974	----	----	0.207	14.7	9.07	0.907	----	----	----	----	----	----	6.19	1974
1975	----	----	0.145	2.66	0.612	0.424	----	----	----	----	----	----	0.950	1975
1976	----	----	0.230	17.9	0.768	0.442	----	----	----	----	----	----	4.76	1976
1977	----	----	0.146	0.447	0.297	0.406	----	----	----	----	----	----	0.322	1977
1978	----	----	0.054	6.77	0.630	0.480	----	----	----	----	----	----	1.96	1978
1979	----	----	0.097	13.0	4.23	1.01	----	----	----	----	----	----	4.55	1979
1980	----	----	0.094	2.83	0.314	0.214	----	----	----	----	----	----	0.852	1980
1981	----	----	0.556	0.514	0.361	0.617	----	----	----	----	----	----	0.511	1981
1982	----	----	0.184	3.81	0.572	0.476	----	----	----	----	----	----	1.26	1982
1983	----	----	0.174	6.67	1.68	0.900	----	----	----	----	----	----	2.11	1983
1984	----	----	0.231	0.803	0.340	4.44	----	----	----	----	----	----	1.43	1984
1985	----	----	1.20	3.61	0.443	0.525	----	----	----	----	----	----	1.43	1985
1986	----	----	1.70	8.01	3.90	0.588	----	----	----	----	----	----	1.54	1986
1987	----	----	0.145	4.25	0.791	0.499	----	----	----	----	----	----	1.25	1987
1988	----	----	0.100	1.70	0.197	0.309	----	----	----	----	----	----	0.669	1988
1989	----	----	0.031	0.397	0.175	0.906	----	----	----	----	----	----	0.373	1989
1990	----	----	0.347	3.35	0.568	0.529	----	----	----	----	----	----	1.19	1990
MEAN	----	----	0.290	4.32	1.15	0.755	0.377	0.333	0.263	0.266	----	----	1.69	MEAN

LOCATION - LAT 51 13 00 N DRAINAGE AREA, 390 km^2
LONG 097 32 00 W NATURAL FLOW

REMARKS - AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

EAST FISHER RIVER NEAR HODGSON - STATION NO. 05SD004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	5.69 CN APR 21	---	---	1961
1962	---	11.3 A CN APR 21	---	---	1962
1963	---	39.6 CN APR 09	0 B CN MAR 01 *	32 300	1963
1964	---	9.12B CN APR 15	0.147B CN MAR 02	9 560	1964
1965	---	17.1 CN APR 14	0.040B CN MAR 01	14 100	1965
1966	---	12.1 B CN APR 04	0.130B CN MAR 01	10 600	1966
1967	---	18.7 CN APR 16	0.074B CN MAR 01	14 100	1967
1968	---	3.21B CN APR 09	0.119B CN MAR 31	9 290	1968
1969	---	23.0 CN APR 12	0.110B CN MAR 01	12 300	1969
1970	---	15.0 E CN APR 19	0.133E CN MAR 01	16 200	1970
1971	---	11.6 CN APR 19	0.066B CN MAR 01	7 260	1971
1972	---	28.9 CN APR 10	0.088B CN MAR 01	14 500	1972
1973	---	1.75B CN MAR 25	0.005B CN MAR 01	4 430	1973
1974	---	64.8 CN APR 20	0.207B CN MAR 01	65 200	1974
1975	---	9.97B CN APR 19	0.142B CN MAR 01	10 000	1975
1976	---	61.2 B CN APR 07	0.212B CN MAR 25	50 200	1976
1977	---	2.10 CN MAY 30	0.071 CN MAY 11	3 400	1977
1978	---	27.6 CN APR 18	0 B CN MAR 01	20 600	1978
1979	---	70.9 CN APR 23 *	0.082B CN MAR 01	47 900	1979
1980	---	9.61B CN APR 11	0.081B CN MAR 30	8 980	1980
1981	3.20 AT 23:07 CST ON JUN 19	2.98 CN JUN 19	0 CN JUN 30	5 390	1981
1982	---	25.7 E CN APR 15	0.090B CN MAR 25	13 100	1982
1983	26.2 B AT 05:15 CST ON APR 08	26.1 B CN APR 08	0.017 CN APR 18	24 600	1983
1984	---	33.6 CN JUN 23	0.030B CN MAR 19	15 100	1984
1985	12.0 B AT 08:27 CST ON APR 03	11.5 A CN APR 03	0.120B CN MAR 24	15 100	1985
1986	34.3 AT 20:40 CST ON APR 01 *	33.8 B CN APR 01	0.015B CN MAR 01	37 300	1986
1987	29.8 AT 22:34 CST ON APR 06	28.1 CN APR 07	0.069B CN MAR 03	13 200	1987
1988	8.85B AT 05:42 CST ON APR 04	8.47B CN APR 04	0.053B CN MAR 01	7 050	1988
1989	6.88 AT 05:32 CST ON JUN 14	6.56B CN JUN 14	0.011B CN MAR 02	3 950	1989
1990	14.3 AT 20:20 CST ON APR 01	12.6 B CN APR 01	0.056B CN MAR 11	12 500	1990
				17 800	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

EASTERN TRIBUTARY TO EDWARDS CREEK - STATION NO. 05LJ032

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	---	---	0.230	0.024	0.032	0.015	0.015	0.024	0.019	0.014	---	1964
1965	0.012	0.011	0.014	0.124	0.613	0.210	0.098	0.072	0.397	0.093	0.053	0.033	0.145	1965
1966	0.016	0.014	0.023	0.138	0.754	0.239	0.046	0.040	0.024	0.029	0.033	0.024	0.132	1966
1967	0.024	0.021	0.022	0.058	0.589	0.094	0.027	0.025	0.015	0.022	0.024	0.014	0.079	1967
1968	0.013	0.012	0.027	0.123	0.544	0.465	0.122	0.098	0.054	0.044	0.031	0.025	0.081	1968
1969	0.022	0.017	0.066	0.414	0.252	0.574	0.227	0.037	0.075	0.084	0.058	0.036	0.150	1969
1970	0.028	0.035	0.034	0.089	0.620	0.316	0.186	0.044	0.139	0.233	0.106	0.036	0.156	1970
1971	0.012	0.008	0.022	0.607	0.140	0.684	0.124	0.046	0.026	0.134	0.074	0.051	0.160	1971
1972	0.045	0.029	0.035	0.476	0.432	0.046	0.024	0.018	0.015	0.029	0.064	0.029	0.103	1972
1973	0.037	0.041	0.040	0.051	0.091	0.250	0.033	0.029	0.415	0.314	0.211	0.066	0.131	1973
1974	0.024	0.023	0.027	0.782	1.34	0.105	0.042	0.027	0.029	0.031	0.031	0.031	0.209	1974
1975	0.013	0.009	0.011	0.120	0.473	0.238	0.042	0.094	1.44	0.214	0.100	0.059	0.233	1975
1976	0.051	0.042	0.036	0.769	0.134	0.343	0.081	0.035	0.018	0.024	0.023	0.022	0.130	1976
1977	0.019	0.023	0.037	0.075	0.073	0.034	0.192	0.059	0.414	0.101	0.063	0.036	0.111	1977
1978	0.022	0.021	0.024	0.372	0.118	0.494	0.066	0.028	0.075	0.122	0.032	0.018	0.082	1978
1979	0.023	0.018	0.024	0.229	1.03	0.153	0.037	0.028	0.030	0.036	0.033	0.029	0.140	1979
1980	0.027	0.023	0.019	0.103	0.027	0.019	0.026	0.102	0.094	0.070	0.031	0.014	0.046	1980
1981	0.014	0.021	0.267	0.310	0.276	0.349	0.041	0.037	0.033	0.045	0.028	0.006	0.120	1981
1982	0	0	0.003	0.222	0.282	0.098	0.027	0.031	0.023	0.337	0.152	0.030	0.101	1982
MEAN	0.022	0.020	0.037	0.293	0.406	0.212	0.089	0.045	0.175	0.105	0.061	0.030	0.128	MEAN

LOCATION - LAT 50 59 03 N
LONG 100 03 35 W
DRAINAGE AREA, 14.8 km^2
NATURAL FLOW

EASTERN TRIBUTARY TO EDWARDS CREEK - STATION NO. 05LJ032

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	---	---	---	1964
1965	---	2.22 CN MAY 07	0.011B CN JAN 11	4 560	1965
1966	---	2.64 CN MAY 19	0.014B CN JAN 19	4 170	1966
1967	---	1.16 B CN MAY 15	0.006B CN DEC 26	2 480	1967
1968	---	0.954 CN MAY 08	0.009B CN JAN 01	2 560	1968
1969	---	4.98 E CN JUN 27	0.005B CN MAR 11	4 730	1969
1970	---	1.75 B CN MAY 09	0.021B CN DEC 29	4 940	1970
1971	---	5.66 E CN JUN 06	0.007B CN FEB 10	5 040	1971
1972	---	1.81 CN APR 26	0 CN SEP 02 *	3 270	1972
1973	---	5.61 CN SEP 04	0 CN JUL 21	4 140	1973
1974	---	4.13 CN APR 27	0.020B CN DEC 31	6 590	1974
1975	36.8 AT 05:16 CST ON SEP 19 *	26.9 CN SEP 19 *	0.009B CN FEB 04	7 360	1975
1976	---	2.89 CN APR 14	0.012 CN MAY 30	4 110	1976
1977	---	6.20 E CN JUL 11	0.014B CN JAN 07	3 500	1977
1978	---	2.09 A CN APR 25	0.015B CN DEC 07	2 570	1978
1979	---	3.78 A CN MAY 17	0.013B CN FEB 27	4 430	1979
1980	0.956 AT 11:02 CST ON AUG 04	0.529A CN SEP 04	0.014B CN DEC 08	1 460	1980
1981	4.96 AT 12:09 CST ON JUN 15	2.30 CN JUN 15	0 B CN DEC 19	3 780	1981
1982	---	1.86 CN OCT 29	0 B CN JAN 01	3 190	1982
				4 050	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

EDWARDS CREEK ABOVE DAUPHIN RESERVOIRS - STATION NO. 05LJ029

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	---	---	---	---	---	---	---	---	---	0.151	---	1962
1963	0.070	0.146	0.129	1.09	0.448	0.594	0.113	0.053	0.084	0.089	0.106	0.150	0.254	1963
1964	0.127	0.118	0.130	0.628	0.552	0.081	---	---	---	---	---	---	---	1964
MEAN	0.099	0.132	0.130	0.859	0.500	0.338	0.113	0.053	0.084	0.089	0.106	0.151	0.254	MEAN

LOCATION - LAT 51 01 21 N LONG 100 04 54 W DRAINAGE AREA, 51.5 km² REGULATED

EDWARDS CREEK ABOVE DAUPHIN RESERVOIRS - STATION NO. 05LJ029

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	---	---	---	1962
1963	---	3.88B ON APR 08 *	0 ON JAN 15 *	8 020	1963
1964	---	---	---	---	1964
				8 020	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0.103	2.15	0.099	0.037	0.079	0.468	0.400	0.274	---	---	0.447	1980
1981	---	---	0.129	0.833	1.52	1.82	0.240	0.233	0.042	0.118	---	---	0.613	1981
1982	---	---	0.060	4.06	1.63	0.295	0.054	0.041	0.008	0.899	---	---	0.875	1982
1983	---	---	0	5.87	2.78	1.28	0.756	0.031	0.034	0.051	---	---	1.34	1983
1984	---	---	0.175	0.603	2.30	0.903	0.065	0	0.007	0.524	---	---	0.573	1984
1985	---	---	1.81	5.77	0.724	1.22	0.128	1.50	1.21	2.56	---	---	1.85	1985
1986	---	---	2.50	4.49	9.11	0.329	0.124	0.094	0.072	0.157	---	---	2.12	1986
1987	---	---	0.755	2.86	0.172	0.036	0.024	0.017	0.106	0.144	---	---	0.509	1987
1988	---	---	0.155	2.31	5.11	0.172	0.011	0.009	0.032	0.011	---	---	0.976	1988
1989	---	---	0.110	0.542	0.131	1.02	0.055	0.077	0.044	0.038	---	---	0.249	1989
1990	---	---	0.358	4.96	4.24	1.25	0.319	0.017	0.014	0.065	---	---	1.40	1990
MEAN	---	---	0.560	3.13	2.53	0.760	0.169	0.226	0.179	0.440	---	---	0.996	MEAN

LOCATION - LAT 51 08 30 N LONG 099 55 20 W DRAINAGE AREA, 311 km² REGULATED

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	6.97B ON APR 06	0 ON MAY 22 *	9 450	1980
1981	12.5 AT 18:56 CST ON JUN 13	6.51 ON JUN 16	0 ON SEP 16	13 000	1981
1982	---	17.3 B ON APR 14	0B ON MAR 01	18 500	1982
1983	---	42.0 B ON APR 22	0B ON MAR 01	28 300	1983
1984	8.22 AT 15:16 CST ON JUN 23	6.50 ON MAY 12	0B ON MAR 01	12 100	1984
1985	24.7 B AT 09:56 CST ON APR 02	16.3 ON APR 20	0B ON MAR 01	39 200	1985
1986	111 AT 02:11 CST ON MAY 06 *	79.5 ON MAY 06 *	0B ON MAR 01	44 800	1986
1987	11.5 AT 22:02 CST ON APR 08	9.38 ON APR 08	0 ON JUN 15	10 800	1987
1988	58.0 AT 00:46 CST ON MAY 03	31.9 ON MAY 03	0B ON MAR 01	20 700	1988
1989	27.3 AT 07:46 CST ON JUN 13	14.8 ON JUN 13	0B ON MAR 01	5 260	1989
1990	41.3 AT 22:10 CST ON MAY 16	21.3 ON MAY 17	0B ON MAR 01	29 500	1990
				21 100	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

EDWARDS CREEK NEAR DAUPHIN - STATION NO. 05LJ022

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	0.096	5.44	2.24	1.45	0.104	0.098	0.122	0.121	---	---	1.20	1957
1958	---	---	0.363	1.31	0.280	0.086	0.313	0.016	0.028	0.147	---	---	0.316	1958
1959	---	---	0.044	1.64	2.14	0.877	0.515	0.072	0.105	0.647	---	---	0.753	1959
1960	---	---	0.062	4.28	6.01	0.684	0.127	0.074	0.012	0.056	---	---	1.41	1960
1961	---	---	0.012	0.521	0.676	0.036	0.038	0	0	0.006	---	---	0.161	1961
1962	---	---	0.100	0.803	1.16	0.868	0.032	0.044	0.144	0.301	---	---	0.439	1962
1963	---	---	0.264	2.73	1.24	1.69	0.276	0.083	0.172	0.178	---	---	0.820	1963
1964	---	---	0	2.48	1.20	0.086	0.077	0.012	0.022	0.039	---	---	0.485	1964
1965	---	---	0.003	1.09	2.06	0.850	0.250	0.123	1.86	0.417	---	---	0.827	1965
1966	---	---	0.179	1.97	2.94	0.772	0.206	0.170	0.015	0.046	---	---	0.781	1966
1967	---	---	0	0.981	1.37	0.216	0.030	0.021	0	0.040	---	---	0.505	1967
1968	---	---	0.218	0.694	0.762	0.430	1.08	0.339	0.118	0.123	---	---	0.471	1968
1969	---	---	0.006	1.43	0.608	3.21	1.42	0.111	0.190	0.186	---	---	0.887	1969
1970	---	---	0.133	1.11	6.39	0.996	0.497	0.084	0.257	0.311	---	---	1.22	1970
1971	---	---	0.153	2.62	0.558	2.24	0.549	0.165	0.109	0.542	---	---	0.863	1971
1972	---	---	0.407	2.40	1.82	0.174	0.046	0.014	0.020	0.031	---	---	0.611	1972
1973	---	---	0.645	0.426	0.259	0.504	0.053	0.043	0.921	0.999	---	---	0.480	1973
1974	---	---	0	5.43	8.86	0.620	0.075	0.097	0.312	0.240	---	---	1.95	1974
1975	---	---	0.122	1.75	2.10	1.03	0.077	0.585	7.19	1.36	---	---	1.76	1975
1976	---	---	0.094	4.58	0.780	4.44	0.538	0.116	0.078	0.074	---	---	1.32	1976
1977	---	---	0.066	0.441	0.157	0.026	0.986	0.278	1.46	0.645	---	---	0.505	1977
1978	---	---	0.165	2.58	0.539	0.418	0.242	0.063	0.289	0.623	---	---	0.609	1978
1979	---	---	0.087	3.21	7.13	1.20	0.146	0.090	0.109	0.061	---	---	1.50	1979
1980	---	---	0.098	0.794	0.204	0.237	0.204	0.388	0.376	0.314	---	---	0.325	1980
MEAN	---	---	0.138	2.11	2.23	0.958	0.328	0.129	0.579	0.319	---	---	0.845	MEAN

LOCATION - LAT 51 07 30 N LONG 100 02 20 W DRAINAGE AREA, 142 km² REGULATED

EDWARDS CREEK NEAR DAUPHIN - STATION NO. 05LJ022

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	25.0 B AT 18:20 CST ON APR 24	25.0 B ON APR 24	0.028B ON MAR 01	25 300	1957
1958	3.91 AT 08:00 CST ON JUL 06	2.94B ON APR 01	0 B ON MAR 01 *	6 700	1958
1959	7.93 AT 00:00 CST ON MAY 04	5.72 ON MAY 04	0 B ON MAR 01	15 900	1959
1960	41.9 AT 16:30 CST ON MAY 26	22.3 ON MAY 26	0 ON SEP 10	29 800	1960
1961	---	1.91A ON MAY 07	0 B ON MAR 01	3 400	1961
1962	---	4.36A ON MAY 30	0 B ON MAR 01	9 300	1962
1963	24.7 AT 21:00 CST ON JUN 18	7.90R ON APR 08	0 B ON MAR 01	17 400	1963
1964	---	8.33B ON APR 11	0 B ON MAR 01	10 300	1964
1965	---	7.48A ON MAY 07	0 B ON MAR 01	17 500	1965
1966	14.3 AT 01:00 CST ON MAY 05	9.57 ON MAY 05	0.006 ON SEP 22	16 500	1966
1967	---	6.97E ON MAY 16	0 B ON MAR 01	12 400	1967
1968	9.00 AT 21:35 CST ON JUL 01	5.55 ON JUL 02	0.018 ON AUG 14	9 960	1968
1969	76.5 AT 08:06 CST ON JUN 27	41.6 R ON JUN 27	0.001 ON SEP 16	18 800	1969
1970	26.5 AT 03:12 CST ON MAY 07	20.4 ON MAY 07	0.005 ON SEP 09	25 700	1970
1971	28.1 AT 15:18 CST ON JUN 06	17.3 ON JUN 06	0.018 ON AUG 29	18 300	1971
1972	9.37 AT 00:48 CST ON APR 22	7.36 ON APR 21	0 ON AUG 28	12 900	1972
1973	8.81 AT 20:00 CST ON OCT 03	6.91 ON OCT 03	0 ON JUL 23	10 200	1973
1974	36.5 B AT 12:15 CST ON APR 19	26.2 B ON APR 19	0 B ON MAR 01	41 300	1974
1975	114 AT 10:57 CST ON SEP 19 *	102 ON SEP 19 *	0 ON JUL 13	37 200	1975
1976	75.9 AT 22:00 CST ON JUN 13	32.8 ON JUN 14	0.012 ON OCT 27	27 900	1976
1977	22.0 AT 01:22 CST ON JUL 12	10.9 ON JUL 12	0.001 ON JUN 07	10 700	1977
1978	8.01 AT 20:47 CST ON APR 23	5.66 ON APR 23	0.012 ON AUG 05	12 900	1978
1979	44.7 AT 04:29 CST ON MAY 17	29.5 ON MAY 17	0.016 ON AUG 21	31 800	1979
1980	---	2.71B ON APR 04	0 E ON JUN 12	6 880	1980
				17 900	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1989

EDWARDS CREEK NEAR DAUPHIN AIRPORT - STATION NO. 05LJ020

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	1.37	1.97	2.52	0.944	0.239	2.13	1.05	---	---	---	1954
1955	---	---	---	2.60	3.76	2.79	0.331	0.099	0.021	0.062	---	---	---	1955
1956	---	---	0.198	1.56	3.01	3.01	1.54	0.240	0.186	0.142	---	---	---	1956
MEAN	---	---	0.198	1.84	2.91	2.77	0.938	0.193	0.779	0.418	---	---	---	MEAN

LOCATION - LAT 51 06 35 N LONG 100 03 45 W DRAINAGE AREA, 138 km² NATURAL FLOW

EDWARDS CREEK NEAR DAUPHIN AIRPORT - STATION NO. 05LJ020

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	13.9 ON SEP 29	0.142B ON APR 01	---	1954
1955	---	21.0 ON JUN 18	0 ON SEP 04 *	---	1955
1956	---	36.2 ON JUN 19 *	0 ON JUL 14	---	1956
				---	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

EDWARDS CREEK NEAR OUTLET OF EDWARDS LAKE - STATION NO. 05LJ030

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	---	---	---	---	---	---	---	---	---	0.075	---	1962
1963	0.066	0.122	0.071	0.079	0.040	0.044	0.015	0.056	0.058	0.027	0.115	0.145	0.069	1963
1964	0.115	0.111	0.093	0.076	0.030	0.022	0.029	0.036	0.034	0.017	0.056	0.074	0.058	1964
1965	0.071	0.074	0.063	0.034	0.028	0.018	0.005	0.004	0.093	0.042	0.074	0.106	0.051	1965
1966	0.104	0.100	0.101	0.052	0.320	0.121	0.026	0.012	0.014	0.015	0.101	0.099	0.089	1966
1967	0.093	0.089	0.085	0.085	0.092	0.009	0.012	0.014	0.028	0.010	0.089	0.081	0.057	1967
1968	0.086	0.088	0.081	0.036	0.028	0.010	0.045	0.018	0.003	0.002	0.072	0.096	0.047	1968
1969	0.082	0.090	0.095	0.094	0.009	0.260	0.424	0.001	0.025	0.014	0.044	0.094	0.103	1969
1970	0.100	0.088	0.083	0.062	0.517	0.259	0.126	0.072	0.063	0.018	0.092	0.110	0.133	1970
1971	0.099	0.093	0.093	0.091	0.031	0.604	0.130	0.097	0.069	0.029	0.098	0.086	0.126	1971
1972	0.087	0.090	0.094	0.090	0.139	0.011	0.032	0.010	0.060	0.004	0.151	0.093	0.072	1972
1973	0.078	0.074	0.069	0.001	0.006	0.024	0.025	0.036	0.068	0.014	0.080	0.115	0.049	1973
1974	0.100	0.091	0.101	0.172	0.784	0.148	0.027	0.019	0.062	0.057	0.111	0.114	0.150	1974
1975	0.124	0.118	0.102	0.068	0.063	0.062	0.060	0.078	1.80	0.140	0.146	0.153	0.241	1975
1976	0.142	0.139	0.149	0.154	0.028	0.460	0.096	0.077	0.045	0.047	0.093	0.068	0.124	1976
MEAN	0.096	0.098	0.091	0.078	0.151	0.147	0.075	0.038	0.173	0.031	0.094	0.101	0.098	MEAN

LOCATION - LAT 50 55 30 N DRAINAGE AREA, 11.7 km²
LONG 100 02 40 W REGULATED SINCE 1962

EDWARDS CREEK NEAR OUTLET OF EDWARDS LAKE - STATION NO. 05LJ030

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	---	---	---	1962
1963	---	0.484E ON APR 17	0 E ON JUL 06 *	2 190	1963
1964	---	0.150 ON MAY 08	0 E ON MAY 21	1 820	1964
1965	---	0.224 ON APR 30	0 E ON JUN 24	1 600	1965
1966	---	0.890 ON MAY 21	0.003 ON APR 08	2 800	1966
1967	---	0.246 ON MAY 17	0 E ON JUN 06	1 800	1967
1968	---	0.235 ON JUL 02	0.001 ON SEP 30	1 490	1968
1969	---	2.81 ON JUN 30	0 ON AUG 09	3 240	1969
1970	---	1.54 ON MAY 20	0.008 ON OCT 19	4 200	1970
1971	---	1.12 ON JUN 14	0.004 ON OCT 17	3 970	1971
1972	---	0.241 ON MAY 17	0 ON JUL 05	2 260	1972
1973	---	0.227E ON SEP 05	0 ON APR 07	1 550	1973
1974	---	1.60 ON MAY 12	0.013E ON JUL 06	4 720	1974
1975	33.1 AT 12:00 CST ON SEP 19 *	22.9 ON SEP 19 *	0.001 ON AUG 24	7 590	1975
1976	---	3.94 ON JUN 15	0.002E ON JUN 04	3 920	1976
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		3 080	MEAN

ELGIN CREEK NEAR SOURIS - STATION NO. 05NG012

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.177	0.425	0.089	0	0	0	0	0	---	---	0.086	1961
1962	---	---	0	1.25	0.085	0.128	0.048	0.019	0.036	0	---	---	0.192	1962
1963	---	---	0.106	0.221	0.002	0.023	0	0	0	0	---	---	0.044	1963
1964	---	---	0	0.535	0.145	0.001	0	0	0	0	---	---	0.084	1964
1965	---	---	0	2.75	0.043	0.015	1.39	0.077	0.189	0.068	---	---	0.562	1965
1966	---	---	0.463	0.461	0.127	0.059	0.008	0	0	0	---	---	0.139	1966
1967	---	---	0.011	0.702	0.130	0	0	0	0	0	---	---	0.104	1967
1969	---	---	0	---	0.107	0.005	0.338	0.022	0.002	0	---	---	---	1969
1970	---	---	0	4.19	0.932	0.042	0.350	0.016	0	0	---	---	0.682	1970
1971	---	---	0.001	0.525	0.096	0.326	0.140	0	0	0	---	---	0.134	1971
1972	---	---	1.77	0.287	0.086	0.009	0.001	0.080	0.003	0	---	---	0.282	1972
1973	---	---	0	0	0	0.027	0.229	0.059	0.042	0.017	---	---	0.047	1973
1974	---	---	0	8.50	0.795	0.066	0	0	0	0	---	---	1.15	1974
1975	---	---	0	4.09	1.08	0.173	0.015	0.135	0.303	0.141	---	---	0.733	1975
1976	---	---	0.006	11.6	0.252	0.253	0.031	0	0	0	---	---	1.49	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0.008	1.99	0.056	0.006	0	0	0	0	---	---	0.252	1978
1979	---	---	0	1.72	0.550	0.046	0	0	0	0	---	---	0.286	1979
1980	---	---	0	0.309	0.001	0	0	0.192	0.098	0.080	---	---	0.084	1980
1981	---	0.379	0.121	0.021	0.007	0.028	0.029	0	0.001	0.001	---	---	0.026	1981
1982	---	---	0.027	4.68	0.129	0.031	0	0	0	0	---	---	0.597	1982
1983	---	---	0.035	2.44	0.045	0.005	0	0	0	0	---	---	0.309	1983
1984	---	---	0.021	0.017	0.126	0.001	0	0	0	0	---	---	0.021	1984
1985	---	---	3.49	0.940	0.005	0	0	0	0.009	0.012	---	---	0.561	1985
1986	---	---	0.858	0.470	1.07	0.008	0.001	0.006	0	0	---	---	0.304	1986
1987	---	---	1.54	3.53	0.009	0	0	---	---	0	---	---	---	1987
1988	---	---	0	0.017	0.003	0	0.001	0	0	0	---	---	0.003	1988
1989	---	---	0	3.49	0.012	0	0	0	0	0	---	---	0.428	1989
1990	---	---	0.046	0.485	0.006	0.098	0.269	0	0	0	---	---	0.112	1990
MEAN	---	0.379	0.299	1.99	0.206	0.047	0.098	0.022	0.024	0.011	---	---	0.323	MEAN

LOCATION - LAT 49 35 28 N DRAINAGE AREA, 1 170 km²
LONG 100 14 05 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.91 AND 0 M3/S OCCURRED IN FEB

ELGIN CREEK NEAR SOURIS - STATION NO. 05NG012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	2.06 ON APR 05	0B ON MAR 01 *	1 820	1961
1962	---	6.51 ON APR 17	0B ON MAR 01	4 070	1962
1963	---	0.909 ON APR 07	0B ON MAR 01	923	1963
1964	---	2.53 ON APR 09	0B ON MAR 01	1 780	1964
1965	---	17.3 ON APR 11	0B ON MAR 01	11 900	1965
1966	---	3.71 B ON MAR 31	0B ON MAR 01	2 950	1966
1967	---	1.85 ON APR 14	0B ON MAR 01	2 200	1967
1969	---	---	---	---	1969
1970	---	18.0 ON APR 27	0B ON MAR 01	14 400	1970
1971	---	1.49 B ON APR 09	0B ON MAR 01	2 840	1971
1972	---	9.12 B ON MAR 17	0B ON MAR 01	5 970	1972
1973	---	1.78 ON JUL 27	0B ON MAR 01	996	1973
1974	---	38.5 B ON APR 19	0B ON MAR 01	24 300	1974
1975	---	25.3 ON APR 29	0B ON MAR 01	15 500	1975
1976	---	54.4 B ON APR 10 *	0 ON JUL 22	31 600	1976
1977	---	0.001B ON MAR 14	0B ON MAR 01	0.605	1977
1978	---	9.94 B ON APR 04	0B ON MAR 01	5 330	1978
1979	---	16.7 B ON APR 22	0B ON MAR 01	6 060	1979
1980	---	2.75 B ON APR 06	0B ON MAR 01	1 780	1980
1981	1.91 B AT 14:35 CST ON FEB 25	0.215B ON MAR 01	0 ON MAY 21	555	1981
1982	35.9 B AT 17:06 CST ON APR 13 *	25.0 B ON APR 14	0B ON MAR 01	12 600	1982
1983	9.40 AT 21:03 CST ON APR 05	8.57 B ON APR 04	0B ON MAR 01	6 540	1983
1984	0.484 AT 13:00 CST ON MAY 07	0.469 ON MAY 07	0B ON MAR 01	439	1984
1985	34.4 AT 19:46 CST ON MAR 24	22.0 B ON MAR 25	0B ON MAR 01	11 900	1985
1986	15.8 AT 13:23 CST ON MAY 02	10.5 ON MAY 06	0B ON MAR 01	6 430	1986
1987	24.4 B AT 21:30 CST ON APR 03	19.9 B ON APR 04	0B ON MAR 01	---	1987
1988	0.078B AT 12:12 CST ON APR 06	0.069B ON APR 06	0B ON MAR 01	54.2	1988
1989	31.2 AT 20:20 CST ON APR 03	22.9 A ON APR 03	0B ON MAR 01	9 070	1989
1990	5.73 B AT 03:09 CST ON APR 02	3.74 B ON APR 02	0B ON MAR 01	2 370	1990
				6 830	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ELM CREEK CHANNEL NEAR ELM CREEK - STATION NO. 05QG005

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	3.22	0.303	0.096	0	0	0	0	---	---	0.893	1960
1961	---	---	0.777	1.50	0.065	0	0	0	0	0	---	---	0.533	1961
1962	---	---	0	1.52	0.656	1.34	0.114	1.41	0.021	0.035	---	---	0.869	1962
1963	---	---	0.744	1.09	0.874	1.70	0.070	0	0	0	---	---	1.10	1963
1964	---	---	0	0.719	0.075	0.346	0	0	0	0	---	---	0.281	1964
1965	---	---	0	4.81	0.385	0.215	0	0	0	0	---	---	1.33	1965
1966	---	---	0	0.933	1.66	0.011	0.282	0.118	0.066	0	---	---	0.653	1966
1967	---	---	0	7.22	0.612	0	0	0	0	0	---	---	0.93	1967
1968	---	---	0.109	0.187	0.045	0.002	0.078	1.88	0.356	0.012	---	---	0.086	1968
1969	---	---	0	5.58	1.83	0.638	2.37	0.380	0.005	0	---	---	1.99	1969
1970	---	---	0	9.19	4.50	0.407	0.017	0	0.002	0	---	---	3.50	1970
1971	---	---	0	2.00	0.229	0.045	0.043	0.002	0	0.023	---	---	0.560	1971
1972	---	---	0.630	5.41	0.414	0	0	0.020	0	0	---	---	0.782	1972
1973	---	---	0.585	0.014	0.012	0.003	---	---	---	---	---	---	0.156	1973
1974	---	---	0	10.4	8.41	0.577	---	---	---	---	---	---	4.84	1974
1975	---	---	0	1.81	0.337	0.148	0.070	0.002	0.001	0	---	---	0.567	1975
1976	---	---	0	5.81	0.046	0.062	0	0	0	---	---	---	1.46	1976
1977	---	---	0	0.064	0.043	0.017	---	---	---	---	---	---	0.031	1977
1978	---	---	0.003	4.05	0.778	0.230	---	---	---	---	---	---	1.25	1978
1979	---	---	0	10.9	9.82	1.11	---	---	---	---	---	---	5.45	1979
1980	---	---	0	0.617	0	0	---	---	---	---	---	---	0.152	1980
1981	---	0.008	0.047	0.005	0	0	---	---	---	---	---	---	0.071	1981
1982	---	---	0.072	0.576	0	0	---	---	---	---	---	---	0.160	1982
1983	---	---	0.877	2.86	0.044	0.102	---	---	---	---	---	---	0.982	1983
1984	---	---	0.059	0.036	0.141	0.323	---	---	---	---	---	---	0.139	1984
1985	---	---	2.84	0.711	0.009	0	---	---	---	---	---	---	0.899	1985
1986	---	---	2.89	3.98	7.40	0.021	---	---	---	---	---	---	4.09	1986
1987	---	---	0	3.57	0.025	0.005	---	---	---	---	---	---	1.38	1987
1988	---	---	0.008	0.408	0.018	0	---	---	---	---	---	---	0.107	1988
1989	---	---	0	0.358	0	0.008	---	---	---	---	---	---	0.090	1989
1990	---	---	0.037	0.807	0.019	0.130	---	---	---	---	---	---	0.245	1990
MEAN	---	0.008	0.312	2.94	1.24	0.243	0.203	0.254	0.030	0.005	---	---	1.18	MEAN

LOCATION - LAT 49 48 42 N LONG 097 58 57 W DRAINAGE AREA, 627 km² REGULATED

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "ELM CREEK CHANNEL NO. 2 NEAR ELM CREEK"

ELM CREEK CHANNEL NEAR ELM CREEK - STATION NO. 05OG005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	8.81 ON APR 11	0B ON MAR 01 *	9 420	1960
1961	---	5.35 B ON APR 01	0B ON MAR 01	5 610	1961
1962	---	19.3 B ON APR 20	0B ON MAR 01	9 160	1962
1963	---	10.7 ON JUN 04	0B ON MAR 01	11 500	1963
1964	---	4.39 ON APR 15	0B ON MAR 01	2 960	1964
1965	---	33.4 ON APR 13	0B ON MAR 01	14 000	1965
1966	---	13.8 ON MAY 05	0B ON MAR 01	6 890	1966
1967	---	25.1 ON APR 20	0B ON MAR 01	20 300	1967
1968	---	0.708B ON MAR 29	0B ON MAR 01	903	1968
1969	---	26.6 ON APR 12	0B ON MAR 01	21 000	1969
1970	---	43.0 ON APR 25	0B ON MAR 01	36 900	1970
1971	---	13.4 ON APR 11	0B ON MAR 01	5 900	1971
1972	---	13.0 B ON APR 14	0B ON MAR 01	8 250	1972
1973	---	1.51 B ON MAR 22	0B ON MAR 01	1 640	1973
1974	---	47.0 B ON APR 17	0B ON MAR 01	51 000	1974
1975	---	8.69 B ON APR 14	0B ON MAR 01	5 980	1975
1976	---	38.8 B ON APR 06	0B ON MAR 01	15 300	1976
1977	---	0.241B ON APR 09	0B ON MAR 01	328	1977
1978	---	19.2 B ON APR 10	0B ON MAR 01	13 200	1978
1979	---	62.1 A ON APR 23 *	0B ON MAR 01	57 500	1979
1980	---	2.30 B ON APR 10	0B ON MAR 01	1 600	1980
1981	---	0.086B ON MAR 18	0 ON APR 10	140	1981
1982	3.82 AT 19:57 CST ON APR 14	2.66 B ON APR 13	0B ON MAR 01	1 690	1982
1983	17.8 B AT 02:15 CST ON APR 04	14.3 B ON APR 04	0B ON MAR 01	10 100	1983
1984	3.47 AT 02:46 CST ON JUN 22	2.68 ON JUN 22	0B ON MAR 01	1 470	1984
1985	27.2 ON AUG 19	16.1 B ON MAR 19	0B ON MAR 01	9 480	1985
1986	41.7 AT 11:45 CST ON MAY 06	39.9 ON MAY 06	0B ON MAR 01	43 100	1986
1987	59.4 A ON APR 06 *	45.7 A ON APR 07	0B ON MAR 01	14 500	1987
1988	---	4.85 B ON APR 16	0B ON MAR 01	1 130	1988
1989	---	3.00 B ON APR 15	0B ON MAR 01	947	1989
1990	4.83 AT 11:45 CST ON APR 04	4.07 B ON APR 03	0B ON MAR 01	2 580	1990
				12 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ELM CREEK CHANNEL NEAR FANNYSTELLE - STATION NO. 05OG004

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.053	7.28	0.437	0.147	0.004	0	0	0	---	---	0.972	1960
1961	---	---	0.978	3.09	0.107	0	0	0	0	0	---	---	0.516	1961
1962	---	---	0	2.61	1.60	2.20	0.178	3.49	0.034	0	---	---	1.26	1962
1964	---	---	0	2.07	0.091	0.549	0.022	0.005	0.012	0	---	---	0.337	1964
1965	---	---	0	9.78	0.684	0.235	0	0	0	0	---	---	1.31	1965
1966	---	---	0.024	4.01	2.57	0	0.314	0.249	0.380	0	---	---	0.937	1966
1967	---	---	0	16.7	0.808	0.003	0.052	0	0	0	---	---	2.16	1967
1968	---	---	0.190	0.322	0.022	0.005	0.163	4.98	0.614	0.016	---	---	0.795	1968
1969	---	---	0	9.46	2.87	1.03	2.92	1.44	0.014	0	---	---	2.20	1969
1970	---	---	0	15.5	6.12	0.620	0.044	0	0	0	---	---	2.76	1970
1971	---	---	0	5.08	0.356	0.070	0.080	0.006	0	0.053	---	---	0.693	1971
1972	---	---	0.411	5.54	0.121	0	0	0.019	0	0	---	---	0.748	1972
1973	---	---	0.637	0.020	0.013	0.010	0.157	0.194	0.025	0.043	---	---	0.139	1973
1974	---	---	0	18.4	11.9	0.369	0	0	0	0	---	---	3.81	1974
1975	---	---	0	3.82	0.863	0.108	---	---	---	---	---	---	---	1975
1976	---	---	0	10.4	0.022	0.091	0.001	0	0	0	---	---	1.30	1976
1977	---	---	0.001	0.290	0.301	0.191	0.191	0	0.859	0	---	---	0.226	1977
MEAN	---	---	0.135	6.73	1.70	0.331	0.258	0.649	0.121	0.007	---	---	1.26	MEAN

LOCATION - LAT 49 48 42 N LONG 097 46 38 W DRAINAGE AREA, 859 km^2 REGULATED

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "ELM CREEK CHANNEL NO. 1 NEAR FANNYSTELLE"

ELM CREEK CHANNEL NEAR FANNYSTELLE - STATION NO. 05OG004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	18.0 B ON APR 07	0B ON MAR 01 *	20 600	1960
1961	---	14.0 B ON APR 08	0B ON MAR 01	10 900	1961
1962	---	27.5 ON AUG 23	0B ON MAR 01	26 700	1962
1964	---	11.6 ON APR 15	0B ON MAR 01	7 140	1964
1965	---	56.6 ON APR 14	0B ON MAR 01	27 800	1965
1966	---	27.3 ON MAY 05	0B ON MAR 01	19 800	1966
1967	---	57.8 ON APR 20	0B ON MAR 01	45 700	1967
1968	---	36.5 ON AUG 24	0B ON MAR 01	16 800	1968
1969	---	42.8 B ON APR 10	0B ON MAR 01	46 600	1969
1970	---	69.1 ON APR 25	0B ON MAR 01	58 300	1970
1971	---	36.2 ON APR 11	0B ON MAR 01	14 700	1971
1972	29.2 B AT 04:20 CST ON APR 15	26.7 B ON APR 15	0B ON MAR 01	15 800	1972
1973	---	2.54B ON MAR 23	0B ON MAR 01	2 940	1973
1974	---	79.0 B ON APR 18 *	0B ON MAR 01	80 700	1974
1975	29.4 AT 02:15 CST ON APR 29	21.3 ON APR 29	0B ON MAR 01	---	1975
1976	89.5 B AT 02:00 CST ON APR 08 *	57.8 B ON APR 07	0B ON MAR 01	27 400	1976
1977	9.77 AT 23:13 CST ON SEP 09	4.42 ON SEP 10	0B ON MAR 01	4 790	1977
				26 700	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ELM CREEK CHANNEL NO. 3 NEAR ELM CREEK - STATION NO. 05QG006

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	1.84	0.145	0.050	0.003	0	0	0	---	---	0.501	1960
1961	---	---	0.264	0.769	0.029	0	0	0	0	0	---	---	0.264	1961
1962	---	---	0	0.797	0.385	0.167	0.008	0.676	0.005	0	---	---	0.335	1962
1964	---	---	0	0.484	0.018	0	0	0	0	0	---	---	0.123	1964
1965	---	---	0	2.67	0.226	0.104	0	0	0	0	---	---	0.738	1965
1966	---	---	0.009	0.586	0.749	0.002	0.133	0.019	0.043	0	---	---	0.340	1966
1967	---	---	0	4.51	0.568	0.002	0	0	0	0	---	---	1.25	1967
1968	---	---	0.026	0.186	0.016	0.002	0.039	1.08	0.244	0.015	---	---	0.057	1968
1969	---	---	0	3.16	1.07	0.435	1.83	0.252	0.002	0	---	---	1.16	1969
1970	---	---	0	4.76	2.99	0.191	0.008	0	0	0	---	---	1.95	1970
1971	---	---	0	1.18	0.122	0.009	0.097	0.003	0	0.024	---	---	0.323	1971
1972	---	---	0.394	1.40	0.078	0	0	0	0	0	---	---	0.464	1972
1973	---	---	0.324	0.005	0.008	0.001	0.004	0.005	0.002	0.005	---	---	0.096	1973
1974	---	---	0	6.27	6.89	0.297	0	0	0	0	---	---	3.37	1974
1975	---	---	0	0.997	0.255	0.031	---	---	---	---	---	---	0.317	1975
1976	---	---	0	2.66	0.041	0.037	---	0	0	---	---	---	0.674	1976
1977	---	---	0.001	0.059	0	0.012	---	---	---	---	---	---	0.018	1977
1978	---	---	0	1.41	0.287	0.133	---	---	---	---	---	---	0.451	1978
1979	---	---	0	5.57	7.22	0.790	---	---	---	---	---	---	3.40	1979
1980	---	---	0	0.325	0	0	---	---	---	---	---	---	0.080	1980
1981	---	0.006	0.003	0	0	0	---	---	---	---	---	---	0.001	1981
1982	---	---	0.049	0.278	0	0	---	---	---	---	---	---	0.001	1982
1983	---	---	0.387	1.29	0	0.039	---	---	---	---	---	---	0.426	1983
1984	---	---	0.040	0.022	0.056	0	---	---	---	---	---	---	0.030	1984
1985	---	---	1.58	0.270	0.002	0	---	---	---	---	---	---	0.469	1985
1986	---	---	2.10	3.89	4.46	0.004	---	---	---	---	---	---	2.62	1986
1987	---	---	0	2.97	0.010	0	---	---	---	---	---	---	0.732	1987
1988	---	---	0.004	0.205	0.011	0	---	---	---	---	---	---	0.024	1988
1989	---	---	0	0.256	0	0.001	---	---	---	---	---	---	0.063	1989
1990	---	---	0.006	0.372	0.006	0.044	---	---	---	---	---	---	0.105	1990
MEAN	---	0.006	0.173	1.64	0.852	0.078	0.152	0.136	0.020	0.003	---	---	0.683	MEAN

LOCATION - LAT 49 47 54 N DRAINAGE AREA, 420 km²
LONG 098 00 20 W REGULATED

REMARKS - AN EQUATION TO GENERATE SOME ANNUAL FLOW VOLUME IS AVAILABLE

ELM CREEK CHANNEL NO. 3 NEAR ELM CREEK - STATION NO. 05QG006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	4.96 ON APR 09	0B ON MAR 01 *	5 280	1960
1961	---	2.66 B ON MAR 31	0B ON MAR 01	2 780	1961
1962	---	7.62 B ON APR 20	0B ON MAR 01	3 530	1962
1964	---	1.70 B ON APR 11	0B ON MAR 01	1 300	1964
1965	---	15.6 ON APR 13	0B ON MAR 01	7 780	1965
1966	---	6.80 ON MAY 05	0B ON MAR 01	3 580	1966
1967	---	20.5 ON APR 21	0B ON MAR 01	13 200	1967
1968	---	2.36 ON APR 23	0B ON MAR 01	599	1968
1969	---	10.7 ON APR 11	0B ON MAR 01	12 200	1969
1970	---	24.7 ON APR 26	0B ON MAR 01	20 600	1970
1971	---	7.11 B ON APR 10	0B ON MAR 01	3 400	1971
1972	---	6.88 B ON APR 15	0B ON MAR 01	4 890	1972
1973	---	1.10 B ON MAR 22	0B ON MAR 01	907	1973
1974	---	41.8 E ON MAY 21 *	0B ON MAR 01	35 500	1974
1975	---	4.96 ON APR 29	0B ON MAR 01	3 350	1975
1976	---	11.7 B ON APR 06	0B ON MAR 01	7 110	1976
1977	---	0.340B ON APR 13	0B ON MAR 01	187	1977
1978	---	6.74 B ON APR 10	0B ON MAR 01	4 760	1978
1979	---	23.4 ON APR 23	0B ON MAR 01	35 800	1979
1980	---	1.08 B ON APR 08	0B ON MAR 01	843	1980
1981	---	0.011B ON MAR 01	0B ON MAR 15	7.52	1981
1982	1.85B AT 00:00 CST ON APR 13	1.28 B ON APR 13	0B ON MAR 01	851	1982
1983	---	6.07 B ON APR 04	0B ON MAR 01	4 490	1983
1984	1.04 AT 05:09 CST ON MAY 07	0.752 ON MAY 07	0B ON MAR 01	311	1984
1985	19.9 ON AUG 19	7.26 B ON MAR 19	0B ON MAR 01	4 940	1985
1986	19.2 AT 11:04 CST ON MAY 06	18.3 ON MAY 06	0B ON MAR 01	27 700	1986
1987	24.2 AT 22:01 CST ON APR 06 *	19.6 ON APR 07	0B ON MAR 01	7 720	1987
1988	3.59B AT 16:02 CST ON APR 02	2.15 B ON APR 02	0B ON MAR 01	571	1988
1989	---	2.16 B ON APR 15	0B ON MAR 01	668	1989
1990	---	2.00 B ON APR 03	0B ON MAR 01	1 110	1990
				7 200	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

EPINETTE CREEK NEAR CARBERRY - STATION NO. 05MH007

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.031	0.380	0.623	---	---	---	---	---	---	---	---	1961
1963	---	---	0.076	0.171	0.382	0.806	0.180	0.042	0.024	0.034	---	---	0.213	1963
1964	---	---	0.014	0.154	0.532	0.177	0.119	0.024	0.083	0.033	---	---	0.142	1964
1965	---	---	0.014	1.03	1.21	1.04	0.090	0.066	0.315	0.229	---	---	0.495	1965
1966	---	---	0.056	1.80	1.31	0.315	0.086	0.029	0.013	0.016	---	---	0.450	1966
1967	---	---	0.022	0.622	0.541	0.077	0.025	0.009	0.005	0.014	---	---	0.164	1967
1968	---	---	0.024	0.024	0.167	0.074	0.023	0.102	0.364	0.284	---	---	0.132	1968
1969	---	---	0.019	1.49	1.48	0.320	1.30	0.252	0.045	0.046	---	---	0.618	1969
1970	---	---	0.040	0.633	2.76	0.889	0.311	0.072	0.035	0.055	---	---	0.601	1970
1971	---	---	0.018	0.307	0.777	0.766	0.724	0.143	0.006	0.077	---	---	0.377	1971
1972	---	---	0.040	0.638	0.695	0.437	0.188	0.151	0.096	0.094	---	---	0.292	1972
1973	---	---	0.030	0.075	0.256	0.201	0.082	0.024	0.037	0.029	---	---	0.091	1973
1974	---	---	0	0.657	2.88	0.847	0.043	0.019	0.022	0.028	---	---	0.563	1974
1975	---	---	0.022	0.150	0.950	0.580	0.130	0.043	0.072	0.046	---	---	0.249	1975
1976	---	---	0.034	3.20	0.999	0.204	0.045	0.017	0.012	0.017	---	---	0.559	1976
1977	---	---	0.038	0.024	0.021	0.013	0.020	0.004	0	0	---	---	0.015	1977
1978	---	---	0.002	1.38	0.769	0.634	0.477	0.004	0.023	0.014	---	---	0.409	1978
1979	---	---	0.028	0.888	3.16	0.641	0.066	0.024	0.016	0.006	---	---	0.605	1979
1980	---	---	0.014	0.063	0.071	0.035	0.020	0.098	0.025	0.046	---	---	0.047	1980
1981	---	---	0.043	0.040	0.009	0.008	0.001	0.001	0.001	0.001	---	---	0.013	1981
1982	---	---	0	0.451	0.166	0.128	0.057	0.004	0.003	0.011	---	---	0.101	1982
1983	---	---	0	0.847	1.12	0.510	0.091	0.005	0.004	0.003	---	---	0.321	1983
1984	---	---	0	0.013	0.016	0.012	0.002	0.001	0.008	0.003	---	---	0.007	1984
1985	---	---	0.052	0.139	0.092	0.030	0.005	0.157	0.145	0.215	---	---	0.104	1985
1986	---	---	0.096	2.19	3.93	0.280	0.243	0.029	0.024	0.049	---	---	0.857	1986
1987	---	---	0.019	1.21	0.275	0.040	0.028	0.033	0.021	0.008	---	---	0.201	1987
1988	---	---	0.075	0.017	0	0	0.001	0	0	0.004	---	---	0.012	1988
1989	---	---	0	0.020	0.002	0	0	0	0	0	---	---	0.003	1989
1990	---	---	0.008	0.001	0	0	0	0	0	0	---	---	0.001	1990
MEAN	---	---	0.028	0.649	0.869	0.324	0.156	0.048	0.050	0.049	---	---	0.273	MEAN

LOCATION - LAT 49 44 28 N
LONG 099 19 50 W

DRAINAGE AREA, 403 km²
NATURAL FLOW

EPINETTE CREEK NEAR CARBERRY - STATION NO. 05MH007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	---	---	---	1961
1963	---	1.23 ON JUN 24	0 B ON MAR 01 *	4 500	1963
1964	---	0.968 ON MAY 11	0.014B ON MAR 01	3 000	1964
1965	---	2.40 ON APR 20	0.014B ON MAR 01	10 500	1965
1966	---	3.60 ON APR 08	0.006 ON SEP 16	9 520	1966
1967	---	1.52 ON APR 26	0.003 ON SEP 02	3 460	1967
1968	---	0.532 ON SEP 08	0.003 ON JUL 11	2 800	1968
1969	---	3.79 ON APR 19	0.014B ON MAR 01	13 100	1969
1970	---	6.00 ON MAY 01	0.021 ON SEP 20	12 700	1970
1971	---	1.76 ON APR 21	0 ON APR 19	7 970	1971
1972	---	1.39 ON APR 29	0.014 ON SEP 11	6 180	1972
1973	---	0.314 ON MAY 09	0.005 ON JUL 23	1 930	1973
1974	---	3.71 ON MAY 21	0 B ON MAR 01	11 900	1974
1975	---	1.35 ON MAY 07	0.001 ON AUG 06	5 270	1975
1976	---	5.72 ON APR 18	0.006 ON AUG 13	11 800	1976
1977	---	0.048B ON MAR 29	0 ON SEP 10	316	1977
1978	---	2.74 ON APR 14	0 B ON MAR 01	8 660	1978
1979	---	6.40 ON MAY 01	0.005 ON OCT 26	12 800	1979
1980	---	0.602 ON AUG 21	0 ON APR 22	988	1980
1981	---	0.101A ON APR 06	0 B ON OCT 22	277	1981
1982	---	1.89 A ON APR 20	0 B ON MAR 01	2 150	1982
1983	2.69 B AT 01:56 CST ON APR 15	2.01 B ON APR 15	0 B ON MAR 01	4 490	1983
1984	1.22 AT 16:13 CST ON SEP 06	0.095 ON JUN 16	0 B ON MAR 01	6 190	1984
1985	0.596 AT 07:09 CST ON AUG 23	0.555 ON AUG 23	0 ON AUG 02	145	1985
1986	8.36 * AT 18:09 CST ON MAY 06 *	8.22 ON MAY 06 *	0.007 ON SEP 04	2 210	1986
1987	2.94 AT 02:44 CST ON APR 20	2.41 ON APR 20	0.004 ON OCT 21	10 100	1987
1988	0.188B AT 01:04 CST ON APR 05	0.108B ON MAR 09	0 ON APR 14	4 250	1988
1989	---	0.085 ON APR 27	0 B ON MAR 01	257	1989
1990	0.067B AT 18:23 CST ON MAR 30	0.030B ON MAR 30	0 B ON MAR 01	57.6	1990
				24.7	
				5 770	MEAN

A - MANUAL GAUGE
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

(SEE REFERENCE INDEX)

FAIRFORD RIVER NEAR FAIRFORD - STATION NO. 05LM001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	220	228	211	220	209	186	---	1912
1913	162	164	169	196	207	229	252	216	178	167	188	183	201	1913
1914	168	148	151	160	183	184	185	148	138	123	113	102	150	1914
1915	95.8	92.7	84.3	83.2	76.0	83.9	79.7	70.3	57.7	60.4	54.2	50.1	73.9	1915
1916	43.8	44.0	45.3	50.9	58.1	67.3	88.6	77.2	59.9	64.3	64.3	56.9	60.1	1916
1917	54.1	54.6	61.6	66.7	66.9	69.7	81.1	73.2	70.7	66.3	66.8	58.3	65.9	1917
1918	58.8	59.3	63.7	66.3	67.7	70.7	79.1	84.1	71.0	72.9	70.0	65.1	69.8	1918
1919	62.7	59.6	55.7	59.7	70.8	71.8	70.3	54.0	46.5	34.6	---	---	---	1919
1920	---	---	---	---	44.3	50.3	44.9	39.0	33.4	---	---	---	---	1920
1955	---	---	---	---	---	---	---	---	---	207	193	200	---	1955
1956	192	190	181	173	189	210	199	178	166	156	147	151	178	1956
1957	149	141	133	135	141	142	149	126	114	108	90.7	94.0	127	1957
1958	90.1	86.9	82.9	80.0	72.4	61.5	60.6	44.2	38.5	13.6	20.0	11.6	55.2	1958
1959	11.5	7.87	9.11	12.4	16.5	21.2	39.4	44.5	16.1	12.0	49.2	42.8	23.7	1959
1960	7.57	53.1	58.5	62.5	79.7	83.8	71.5	61.8	48.4	36.1	21.4	0	48.6	1960
1961	0	0	0	0	0	0	38.7	16.0	0.650	0	55.7	3.23	9.56	1961
1962	3.28	1.41	2.80	2.41	1.99	1.79	1.88	2.49	2.86	2.09	1.76	1.68	2.36	1962
1963	1.69	1.59	1.71	1.76	1.88	7.58	68.8	39.6	2.88	2.13	1.70	2.04	11.3	1963
1964	2.15	2.04	2.08	2.01	1.89	1.90	1.80	1.84	1.60	1.35	1.22	1.07	1.75	1964
1965	1.15	1.24	1.38	1.77	2.18	3.01	2.75	2.49	2.10	1.41	2.16	1.97	1.97	1965
1966	2.28	2.08	2.61	3.30	8.74	112	110	87.5	47.6	20.1	4.45	5.70	34.0	1966
1967	6.24	6.54	45.2	115	234	250	190	152	31.0	4.34	3.58	44.3	90.7	1967
1968	88.3	97.1	95.7	61.9	42.0	101	111	83.4	79.5	83.1	96.0	133	89.3	1968
1969	88.2	88.2	88.8	96.5	105	88.1	61.6	47.4	41.4	18.2	13.1	7.33	61.8	1969
1970	6.85	7.33	34.5	67.3	122	255	213	165	111	50.7	2.22	0	86.7	1970
1971	0	5.52	84.0	184	239	226	183	94.7	54.3	54.2	72.1	91.7	108	1971
1972	80.8	83.6	88.8	102	148	228	120	26.1	2.49	8.33	49.0	49.0	82.6	1972
1973	46.2	47.9	7.73	6.79	7.49	80.9	151	64.3	53.6	64.0	68.3	74.9	54.4	1973
1974	72.6	74.5	72.8	177	297	321	272	200	158	149	131	130	172	1974
1975	114	77.0	71.7	99.8	163	242	207	121	173	209	196	171	154	1975
1976	153	139	134	204	318	317	278	210	104	20.7	7.58	3.90	158	1976
1977	4.29	4.69	4.58	3.48	6.03	101	189	24.6	15.4	79.2	82.6	82.6	50.2	1977
1978	92.7	89.9	92.5	87.0	56.0	62.7	44.7	20.9	18.0	19.2	24.7	22.7	57.4	1978
1979	25.0	25.8	37.6	140	308	330	301	240	105	117	112	105	155	1979
1980	109	108	105	98.9	56.3	23.8	9.14	10.4	68.1	59.6	54.2	53.1	62.7	1980
1981	51.4	50.2	30.2	18.9	16.6	15.1	23.5	21.4	19.2	18.4	17.0	16.2	24.7	1981
1982	15.8	15.8	16.8	17.9	19.1	19.3	16.8	20.4	14.9	22.3	9.76	8.42	16.6	1982
1983	8.89	9.46	9.97	12.5	74.8	113	154	134	54.3	49.7	49.8	36.7	59.3	1983
1984	36.1	33.8	33.5	34.5	38.8	72.9	160	113	31.2	49.1	35.8	54.3	50.0	1984
1985	55.6	59.3	82.3	117	117	119	70.4	30.6	45.8	86.1	82.4	82.2	79.0	1985
1986	78.6	74.5	73.1	87.8	262	269	246	122	46.7	52.1	59.3	61.6	120	1986
1987	63.5	62.1	70.1	137	155	112	33.4	14.1	12.7	35.7	34.1	34.9	63.6	1987
1988	35.3	36.1	36.0	23.9	105	144	65.3	16.3	12.0	10.5	11.9	14.5	42.5	1988
1989	15.0	16.5	16.1	15.9	19.6	21.9	32.1	25.7	21.7	16.6	35.1	34.8	22.6	1989
1990	32.8	33.1	34.6	36.4	44.1	64.7	84.1	71.5	46.1	31.6	26.2	26.7	44.4	1990
MEAN	56.8	56.1	58.8	73.9	98.7	117	115	82.8	60.8	61.5	61.1	59.5	73.7	MEAN

LOCATION - LAT 51 36 00 N DRAINAGE AREA, 79 900 km²
LONG 098 42 15 W REGULATED SINCE 1934

FAIRFORD RIVER NEAR FAIRFORD - STATION NO. 05LM001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)		MAXIMUM DAILY DISCHARGE (m^3/s)		MINIMUM DAILY DISCHARGE (m^3/s)		TOTAL DISCHARGE (dam^3)	YEAR
1912	---		---		---		---	1912
1913	---		326	ON SEP 09	142 B	ON JAN 20	6 340 000	1913
1914	---		274	ON MAY 20	90.9 B	ON DEC 24	4 740 000	1914
1915	---		112 B	ON JAN 05	38.8	ON SEP 16	2 330 000	1915
1916	---		118	ON JUL 19	30.0	ON SEP 14	1 900 000	1916
1917	---		102	ON JUL 25	38.5	ON JUN 15	2 080 000	1917
1918	---		102	ON JUN 20	38.5	ON NOV 09	2 200 000	1918
1919	---		---		---		---	1919
1920	---		---		---		---	1920
1955	---		---		---		---	1955
1956	---		227	ON JUN 07	135	ON OCT 09	5 610 000	1956
1957	---		163	ON JUL 24	76.5	ON NOV 23	4 600 000	1957
1958	---		93.4	ON JAN 05	7.93	ON OCT 10	1 740 000	1958
1959	---		70.8	ON JUL 24	3.91	ON OCT 09	746 000	1959
1960	---		96.6	ON JUN 27	0	ON NOV 26 *	1 540 000	1960
1961	---		151	ON NOV 22	0	ON JAN 01	301 000	1961
1962	---		6.46	ON AUG 27	1.19	ON JUN 29	74 500	1962
1963	---		109 E	ON JUL 18	1.51	ON NOV 13	355 000	1963
1964	---		2.35B	ON JAN 28	1.06 B	ON DEC 11	55 200	1964
1965	---		4.11	ON JUN 19	0.130	ON OCT 09	62 100	1965
1966	147	AT 20:10 CST ON JUL 04	130	ON JUN 11	1.22 B	ON FEB 13	1 070 000	1966
1967	362	AT 19:20 CST ON JUN 03	323	ON JUN 03	3.26	ON NOV 12	2 860 000	1967
1968	231 B	AT 08:00 CST ON DEC 06	221 B	ON DEC 06	5.41	ON MAY 10	2 810 000	1968
1969	138	AT 13:57 CST ON MAY 06	131	ON MAY 06	5.32	ON OCT 09	1 950 000	1969
1970	385	AT 13:27 CST ON JUL 01 *	334	ON JUL 01	0 B	ON NOV 15	2 730 000	1970
1971	320	AT 09:04 CST ON MAY 28	280	ON MAY 28	0 B	ON JAN 01	3 400 000	1971
1972	317	AT 01:43 CST ON JUN 14	258	ON JUN 13	0.861	ON OCT 18	2 610 000	1972
1973	225	AT 18:18 CST ON JUL 22	206	ON JUL 23	4.96	ON MAY 13	1 720 000	1973
1974	368	AT 18:18 CST ON JUN 26	351	ON JUN 06 *	49.3	ON NOV 14	5 420 000	1974
1975	351	AT 14:09 CST ON JUN 28	309	ON JUN 27	54.1	ON AUG 17	4 850 000	1975
1976	368	AT 10:45 CST ON MAY 18	345	ON MAY 18	3.85 B	ON DEC 07	4 980 000	1976
1977	270	AT 18:41 CST ON JUN 25	249	ON JUN 22	2.25	ON MAY 02	1 580 000	1977
1978	---		99.1 B	ON JAN 08	8.38	ON OCT 05	1 650 000	1978
1979	---		351	ON JUN 06	11.8	ON SEP 06	4 870 000	1979
1980	116	AT 20:42 CST ON JAN 15	114 B	ON JAN 12	7.05	ON AUG 26	1 980 000	1980
1981	66.0	AT 06:56 CST ON JAN 03	52.0 B	ON JAN 01	8.93	ON JUN 15	779 000	1981
1982	107	AT 17:32 CST ON OCT 13	92.9	ON OCT 13	5.72 E	ON NOV 04	524 000	1982
1983	194	AT 00:23 CST ON JUL 17	176	ON JUL 16	5.12	ON NOV 29	1 870 000	1983
1984	200	AT 08:57 CST ON JUN 30	182	ON JUN 30	8.93	ON APR 27	1 830 000	1984
1985	156	AT 10:25 CST ON JUN 08	139	ON JUN 08	21.0	ON AUG 17	2 490 000	1985
1986	331	AT 11:50 CST ON JUN 02	310	ON MAY 15	19.8	ON NOV 08	3 780 000	1986
1987	187	AT 13:58 CST ON JUN 02	181	ON MAY 17	8.76	ON OCT 05	2 000 000	1987
1988	173	AT 17:58 CST ON MAY 17	164	ON MAY 31	9.38	ON OCT 28	1 350 000	1988
1989	67.4	AT 08:28 CST ON JUN 29	46.3	ON JUN 29	9.83	ON JUN 12	713 000	1989
1990	109	AT 01:32 CST ON JUL 17	96.3	ON JUL 13	22.8	ON NOV 11	1 400 000	1990
							2 320 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

FISH LAKE DRAIN NEAR CAMP MORTON - STATION NO. 05SB005

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	0.063	0.137	0.017	0.006	0.012	0.026	0.027	0.310	---	---	0.075	1968
1969	---	---	0	1.18	1.29	0.630	0.061	0.024	0	0.453	---	---	0.454	1969
1970	---	---	0	0.481	0.435	0.471	0.351	0	0	0.217	---	---	0.243	1970
1971	---	---	0	0.282	0.062	0.009	0.007	0	0	0.056	---	---	0.051	1971
1972	---	---	0	0.460	0.024	0	0	0	0.002	0	---	---	0.060	1972
1973	---	---	0.099	0.004	0	0.171	0	0.070	0.419	1.03	---	---	0.224	1973
1974	---	---	0	5.82	3.75	1.92	1.59	0.838	0.902	1.57	---	---	2.04	1974
1975	---	---	0	0.521	0.437	0.272	0.167	0.343	0.402	0.608	---	---	0.343	1975
1976	---	---	0	3.14	1.90	1.06	0.602	0.228	0.049	0	---	---	0.868	1976
1977	---	---	0.002	0.044	0.002	0.246	0.313	0.244	1.07	0.689	---	---	0.324	1977
1978	---	---	0	2.87	1.51	1.11	0.847	0.506	0.444	0.236	---	---	0.933	1978
1979	---	---	0	1.75	2.74	2.02	1.02	0.567	0.416	0.299	---	---	1.10	1979
1980	---	---	0	0.634	0.543	0.055	0.160	0.011	0.022	0.025	---	---	0.181	1980
1981	---	---	0.097	0.021	0.003	0.018	0.018	0.201	0.526	0.079	---	---	0.119	1981
1982	---	---	0.143	1.63	0.894	0.546	0.234	0.133	0.103	1.02	---	---	0.586	1982
1983	---	---	0.005	1.57	1.28	0.741	0.925	0.058	0	0.013	---	---	0.572	1983
1984	---	---	0.035	0.110	0.010	0.019	0.001	0	0	0.026	---	---	0.025	1984
1985	---	---	0.178	0.267	0.006	0.001	0.002	0.067	0.010	0.022	---	---	0.069	1985
1986	---	---	0.427	1.71	1.61	0.968	0.441	0.341	0.019	0.009	---	---	0.689	1986
1987	---	---	0	1.75	1.43	0.441	0.076	0.009	0.001	0.001	---	---	0.461	1987
1988	---	---	0	0.243	0.104	0	0	0	0	0	---	---	0.043	1988
1989	---	---	0	0.101	0	0.415	0.001	0	0	0	---	---	0.063	1989
1990	---	---	0.078	0.202	0.015	0.100	0.066	0	0	0	---	---	0.057	1990
MEAN	---	---	0.049	1.08	0.785	0.488	0.300	0.159	0.192	0.290	---	---	0.417	MEAN

LOCATION - LAT 50 42 11 N DRAINAGE AREA 246 km^2
LONG 097 01 03 W REGULATED SINCE 1965

REMARKS - PUBLISHED AS "CHATFIELD LAKE DRAIN" PRIOR TO 1979

FISH LAKE DRAIN NEAR CAMP MORTON - STATION NO. 05SB005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	0.895 ON OCT 10	0B ON MAR 01 *	1 580	1968
1969	---	8.86 ON APR 12	0B ON MAR 01	9 600	1969
1970	---	2.08 ON APR 18	0B ON MAR 01	5 150	1970
1971	---	1.83 ON APR 19	0B ON MAR 01	1 090	1971
1972	---	3.56 B ON APR 15	0B ON MAR 01	1 260	1972
1973	---	4.36 ON OCT 12	0B ON MAR 01	4 750	1973
1974	---	16.9 ON APR 20 *	0B ON MAR 01	43 100	1974
1975	---	1.91 B ON APR 21	0B ON MAR 01	7 260	1975
1976	---	5.57 ON APR 05	0B ON MAR 01	10 400	1976
1977	---	5.84 ON SEP 10	0B ON MAR 01	6 860	1977
1978	---	5.84 ON APR 18	0B ON MAR 01	19 800	1978
1979	---	6.56 ON APR 21	0B ON MAR 01	23 200	1979
1980	---	1.86 ON APR 11	0B ON MAR 01	3 820	1980
1981	---	2.70 A ON SEP 10	0B ON MAR 01	2 535	1981
1982	---	4.74 B ON APR 15	0B ON MAR 01	12 400	1982
1983	---	4.82 B ON APR 05	0B ON MAR 01	12 100	1983
1984	0.877 AT 20:00 CST ON APR 03	0.493A ON APR 03	0B ON MAR 01	525	1984
1985	2.39 B AT 08:36 CST ON APR 05	1.35 B ON MAR 29	0B ON MAR 01	1 460	1985
1986	8.07 B AT 20:15 CST ON MAR 31	5.57 B ON APR 01	0B ON MAR 01	14 600	1986
1987	---	4.97 B ON APR 05	0B ON MAR 01	9 750	1987
1988	---	1.80 B ON APR 03	0B ON MAR 01	910	1988
1989	11.1 AT 02:06 CST ON JUN 13 *	5.91 ON JUN 13	0B ON MAR 01	1 340	1989
1990	---	0.993B ON MAR 31	0B ON MAR 01	1 210	1990
				8 810	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

FISH LAKE DRAIN NEAR MELEB - STATION NO. 05SB004

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	0.132	1.16	0.502	0.079	0.024	0.001	0.435	---	---	0.293	1969
1970	---	---	0	0.004	0.329	0.567	0.564	0.002	0	0.243	---	---	0.214	1970
MEAN	---	---	0	0.068	0.745	0.535	0.322	0.013	0.001	0.339	---	---	0.254	MEAN

LOCATION - LAT 50 44 46 N DRAINAGE AREA, 526 km^2
LONG 097 19 06 W REGULATED

REMARKS - PUBLISHED AS "CHATFIELD LAKE DRAIN" PRIOR TO 1979

FISH LAKE DRAIN NEAR MELEB - STATION NO. 05SB004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	2.21E ON MAY 15 *	0B ON MAR 01 *	6 200	1969
1970	---	1.33 ON JUN 26	0B ON MAR 01	4 520	1970
				5 360	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

FISHER RIVER NEAR DALLAS - STATION NO. 05SD003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	1.38	0.917	0.388	0.223	0.158	0.191	0.261	0.242	0.129	---	1961
1962	0.061	0.055	0.055	3.88	0.791	0.764	0.347	0.389	0.361	0.423	0.369	0.259	0.643	1962
1963	0.069	0.021	0.381	17.9	4.10	18.9	3.08	1.31	0.891	0.495	0.418	0.290	3.96	1963
1964	0.238	0.213	0.231	4.00	4.15	1.02	0.771	0.713	0.624	0.651	0.556	0.350	1.13	1964
1965	0.276	0.163	0.156	8.10	1.85	2.38	1.02	0.501	0.489	0.475	0.436	0.392	1.35	1965
1966	0.317	0.277	0.211	7.49	4.57	1.06	0.509	0.306	0.236	0.282	0.246	0.241	1.41	1966
1967	0.217	0.185	0.238	9.18	2.50	0.804	0.491	0.290	0.232	0.363	0.317	0.274	1.26	1967
1968	0.163	0.175	0.642	4.07	1.84	1.80	0.970	0.596	0.889	0.664	0.541	0.310	1.05	1968
1969	0.257	0.300	0.296	8.17	1.10	1.30	0.630	4.61	1.48	2.39	1.01	0.470	1.83	1969
1970	0.355	0.315	0.291	12.3	7.98	1.93	0.745	0.330	0.353	0.334	0.318	0.217	2.12	1970
1971	0.153	0.088	0.169	5.93	0.840	0.442	0.337	0.233	0.239	0.292	0.262	0.216	0.764	1971
1972	0.141	0.100	0.139	11.2	1.73	0.546	0.337	0.300	0.219	0.244	0.193	0.105	1.26	1972
1973	0.059	0.067	1.03	0.517	0.349	3.14	0.409	0.288	0.532	1.72	0.709	0.432	0.771	1973
1974	0.311	0.371	0.369	32.1	28.1	6.32	0.891	0.389	0.390	0.365	0.361	0.274	5.86	1974
1975	0.201	0.186	0.233	5.39	1.11	0.775	0.552	14.1	16.1	6.35	2.34	0.888	4.04	1975
1976	0.652	0.540	0.481	46.8	6.01	1.27	0.593	0.344	0.239	0.731	0.235	0.110	4.74	1976
1977	0.079	0.075	0.241	0.720	0.352	0.660	0.778	0.280	0.495	0.522	0.471	0.319	0.440	1977
1978	0.241	0.211	0.294	12.3	1.87	1.48	0.943	0.432	0.462	0.348	0.347	0.304	1.61	1978
1979	0.195	0.188	0.228	28.9	19.1	4.46	0.823	0.490	0.418	0.416	0.393	0.273	4.65	1979
1980	0.211	0.249	0.223	5.12	0.486	0.252	0.250	0.908	1.13	0.940	0.770	0.503	0.915	1980
1981	0.383	0.473	1.94	7.45	1.09	2.23	0.650	0.770	1.24	2.92	3.86	0.714	1.49	1981
1982	0.399	0.312	0.601	16.7	1.68	1.68	1.52	0.695	0.483	0.819	0.816	0.579	2.35	1982
1983	0.280	0.217	0.274	12.7	1.27	2.97	0.782	0.338	0.236	0.320	0.322	0.158	1.64	1983
1984	0.093	0.116	0.369	1.90	0.814	12.2	1.57	0.254	0.213	0.387	0.513	0.524	1.56	1984
1985	0.447	0.343	2.11	8.29	1.04	1.14	0.575	3.41	1.65	2.88	1.72	0.504	2.01	1985
1986	0.338	0.252	2.37	30.6	16.9	1.25	0.713	0.342	0.310	0.323	0.250	0.221	4.48	1986
1987	0.178	0.158	0.318	9.66	0.686	0.380	0.365	0.355	0.229	0.347	0.339	0.283	1.10	1987
1988	0.097	0.096	0.185	3.64	3.41	0.425	0.231	0.160	0.179	0.154	0.181	0.108	0.738	1988
1989	0.097	0.074	0.067	0.763	0.237	1.13	0.299	0.151	0.137	0.147	0.230	0.089	0.284	1989
1990	0.071	0.091	0.424	6.81	1.28	0.940	0.528	0.217	0.148	0.173	0.213	0.144	0.915	1990
MEAN	0.227	0.205	0.505	10.6	4.05	2.47	0.727	1.13	1.03	0.878	0.633	0.323	1.94	MEAN

LOCATION - LAT 51 21 20 N DRAINAGE AREA, 1 720 km²
LONG 097 30 50 W NATURAL FLOW

FISHER RIVER NEAR DALLAS - STATION NO. 05SD003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	4.53E CN APR 20	---	---	1961
1962	---	26.7 CN APR 22	0.051 CN MAR 02	20 300	1962
1963	---	70.2 B CN APR 09	0.005B CN MAR 05 *	125 000	1963
1964	---	15.9 CN APR 16	0.167 CN FEB 27	35 600	1964
1965	---	54.1 CN APR 15	0.133 CN MAR 07	42 500	1965
1966	---	34.8 CN APR 04	0.193B CN NOV 15	44 500	1966
1967	---	46.2 CN APR 16	0.147 CN SEP 24	39 700	1967
1968	---	10.4 CN APR 09	0.075E CN MAR 04	33 200	1968
1969	---	43.9 B CN APR 13	0.227B CN JAN 12	57 800	1969
1970	---	38.5 CN APR 20	0.153B CN NOV 28	66 800	1970
1971	---	26.4 B CN APR 12	0.074B CN FEB 17	24 100	1971
1972	---	48.4 B CN APR 19	0.062B CN DEC 30	39 800	1972
1973	10.4 AT 21:30 CST CN JUN 18	9.66 CN JUN 19	0.048B CN JAN 08	24 300	1973
1974	108 AT 18:35 CST CN APR 22	105 CN APR 22	0.207 CN JAN 16	185 000	1974
1975	42.8 AT 06:21 CST CN AUG 27	42.2 CN AUG 27	0.150 CN JAN 24	128 000	1975
1976	86.7 AT 20:43 CST CN APR 09	85.2 CN APR 09	0.065 CN DEC 09	150 000	1976
1977	1.75 AT 10:57 CST CN MAY 20	1.67 CN MAY 20	0.054 CN JAN 22	13 900	1977
1978	63.4 AT 10:15 CST CN APR 18	58.9 CN APR 18	0.178B CN FEB 07	80 700	1978
1979	121 AT 14:00 CST CN APR 23 *	119 CN APR 23 *	0.144B CN JAN 17	147 000	1979
1980	20.1 AT 06:00 CST CN APR 11	14.6 CN APR 11	0.153 CN AUG 03	28 900	1980
1981	9.06 AT 19:14 CST CN NOV 01	8.77B CN MAR 30	0.205B CN FEB 13	47 100	1981
1982	---	49.7 E CN APR 17	0.193B CN FEB 18	74 000	1982
1983	45.4 B AT 12:00 CST CN APR 08	45.4 B CN APR 08	0.088B CN DEC 31	51 700	1983
1984	81.1 A CN JUN 24	73.2 A CN JUN 24	0.067B CN JAN 30	49 400	1984
1985	26.8 B AT 00:31 CST CN APR 04	25.0 B CN APR 03	0.307B CN FEB 12	63 400	1985
1986	91.0 B AT 05:32 CST CN APR 04	87.4 B CN APR 04	0.189B CN NOV 14	141 000	1986
1987	62.6 B AT 12:03 CST CN APR 08	56.4 B CN APR 08	0.108B CN JAN 27	34 700	1987
1988	20.6 B AT 13:25 CST CN APR 05	19.9 B CN APR 05	0.073B CN JAN 14	23 300	1988
1989	8.67 AT 10:23 CST CN JUN 14	7.77 CN JUN 14	0.034A CN DEC 24	8 960	1989
1990	26.0 AT 22:06 CST CN APR 02	24.3 CN APR 02	0.052A CN JAN 06	28 800	1990
				61 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

FISHING RIVER NEAR PORK RIVER - STATION NO. 05LJ015

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	----	----	0	3.73	4.02	0.013	0.670	0.194	0.039	0	----	----	1.33	1948
1949	----	----	0	0.662	0.056	0.123	0.092	0.016	0	0	----	----	0.117	1949
1950	----	----	0	1.12	0.277	0.385	0.303	0.095	0	0.004	----	----	0.270	1950
1951	----	----	0	1.58	0.629	0.073	0.104	0.209	0.232	0.273	----	----	0.410	1951
1952	----	----	0	1.42	0.170	0.052	0.005	0	0	0	----	----	0.303	1952
1953	----	----	0	4.30	0.649	6.38	1.19	0.274	0.103	0.181	----	----	1.27	1953
1954	----	----	0	2.61	1.85	6.19	1.47	0.013	0.414	0.684	0.127	----	1.64	1954
1955	----	----	0	3.21	2.46	0.963	0.068	0	0	0	----	----	0.831	1955
1956	----	----	0	0.147	1.23	0.488	0.173	0.047	0.015	0.008	----	----	0.565	1956
1957	----	----	0.029	1.71	0.640	0.075	0.005	0	0	0	----	----	0.304	1957
1958	----	----	0.027	0.071	0.008	0.001	0	0	0	0	----	----	0.013	1958
1959	----	----	0.014	0.122	0.055	0.068	0.058	0	0	0	----	----	0.039	1959
1960	----	----	0	1.32	0.473	0.074	0.002	0	0	0	----	----	0.231	1960
1961	----	----	0	0	0	0	0	0	0	0	----	----	0	1961
1962	----	----	0	0.285	0.096	0.073	0	0	0	0	----	----	0.055	1962
1963	----	----	0.182	0.444	0.101	0.158	0.017	0.001	0	0	----	----	0.112	1963
1964	----	----	0	0.047	0.031	0	0	0	0	0	----	----	0.010	1964
1965	----	----	0	0.074	0.061	0.086	0.288	0.065	0.432	0.165	----	----	0.146	1965
1966	----	----	0.560	1.92	0.848	0.230	0.157	0.004	0.001	0.005	----	----	0.451	1966
1967	----	----	0.003	0.533	1.36	0.054	0	0	0	0	----	----	0.245	1967
1968	----	----	0.190	0.008	0.001	0	0	0	0	0	----	----	0.025	1968
1969	----	----	0	0.962	0.078	0.032	0.216	0.033	0.117	0.003	----	----	0.178	1969
1970	----	----	0.001	2.30	1.79	0.847	0.932	0.074	0.001	0.002	----	----	0.740	1970
1971	----	----	0.002	2.11	0.047	0.414	0.004	0	0	0.002	----	----	0.316	1971
1972	----	----	0.005	1.44	0.156	0.003	0	0	0	0	----	----	0.222	1972
1973	----	----	0	0.001	0.001	0.005	0.001	0	0	0	----	----	0.001	1973
1974	----	----	0	2.83	5.86	0.470	0.005	0	0	0	----	----	1.15	1974
1975	----	----	0	2.01	0.775	0.979	0	0	0.227	0.062	----	----	0.500	1975
1976	----	----	0.001	3.60	0.034	7.16	0.097	0	0	0	----	----	1.33	1976
1977	----	----	0.003	0.011	0.003	0.001	0	0.002	0.040	0.059	----	----	0.015	1977
1978	----	----	0.006	0.592	0.098	0.033	0.036	0	0.001	0.003	----	----	0.095	1978
1979	----	----	0	4.42	2.90	0.444	0.013	0.006	0	0	----	----	0.966	1979
1980	----	----	0	0.656	0.004	0	0	0.003	0	0.001	----	----	0.081	1980
1981	----	----	0.002	0.008	0.031	0.157	0.130	0	0	0.005	----	----	0.041	1981
1982	----	----	0.202	0.473	0.102	0.027	0.089	0.022	0	0.025	----	----	0.117	1982
MEAN	----	----	0.035	1.34	0.837	0.745	0.181	0.030	0.046	0.042	0.127	----	0.403	MEAN

LOCATION - LAT 51 26 37 N DRAINAGE AREA, 263 km²
LONG 100 02 26 W NATURAL FLOW

FISHING RIVER NEAR PORK RIVER - STATION NO. 05LJ015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	----	29.7 CST APR 24	CST CST MAR 01 *	28 100	1948
1949	----	2.58 CST APR 04	CST CST MAR 01	2 670	1949
1950	----	8.41 CST APR 20	CST CST MAR 01	5 710	1950
1951	----	5.30 CST APR 09	CST CST MAR 01	8 670	1951
1952	----	15.1 B CST APR 07	CST CST MAR 01	6 420	1952
1953	----	38.6 CST JUN 05	CST CST MAR 01	26 800	1953
1954	----	20.2 B CST APR 17	CST CST MAR 01	14 700	1954
1955	----	13.5 CST APR 06	CST CST MAR 01	17 600	1955
1956	----	7.48 CST MAY 01	CST CST MAR 01	12 000	1956
1957	----	4.22 CST APR 29	CST CST MAR 01	6 430	1957
1958	----	0.595 B CST MAR 31	CST CST MAR 01	275	1958
1959	----	0.368 CST APR 05	CST CST MAR 01	830	1959
1960	----	4.11 CST APR 10	CST CST MAR 01	4 990	1960
1961	----	0 B CST MAR 01	CST CST MAR 01	0	1961
1962	----	2.62 CST APR 19	CST CST MAR 01	1 160	1962
1963	----	1.56 B CST APR 08	CST CST MAR 01	2 370	1963
1964	----	0.142 CST APR 12	0 CST MAR 01	205	1964
1965	----	2.83 CST SEP 24	CST CST MAR 01	3 080	1965
1966	----	5.83 CST APR 01	0 CST JUL 24	9 540	1966
1967	----	9.17 B CST MAY 07	CST CST MAR 01	5 180	1967
1968	----	1.16 B CST MAR 27	CST CST MAR 01	532	1968
1969	----	6.20 CST APR 14	CST CST MAR 01	3 770	1969
1970	----	7.50 CST APR 27	CST CST MAR 01	15 700	1970
1971	----	7.87 B CST APR 12	0 CST JUL 24	6 690	1971
1972	----	5.15 B CST APR 13	CST CST JUN 15	4 700	1972
1973	----	0.045 CST JUN 28	CST CST MAR 01	21.7	1973
1974	----	18.2 CST APR 20	CST CST MAR 01	14 300	1974
1975	----	8.41 CST APR 28	CST CST MAR 01	10 600	1975
1976	----	52.4 CST JUN 15 *	CST CST MAR 01	28 200	1976
1977	0.402 AT 11:35 CST CST SEP 28	0.328 CST SEP 28	CST CST MAR 01	12	1977
1978	----	2.21 B CST APR 10	CST CST MAR 01	311	1978
1979	24.4 AT 00:49 CST CST APR 24 *	20.9 CST APR 24	CST CST MAR 01	2 010	1979
1980	4.14 B AT 13:35 CST CST APR 07	3.79 B CST APR 07	CST CST MAR 01	20 400	1980
1981	3.51 AT 00:58 CST CST JUN 24	1.90 CST JUN 24	CST CST MAR 01	1 720	1981
1982	----	3.17 B CST APR 15	CST CST MAR 01	873	1982
				2 470	
				8 540	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

FOOTPRINT RIVER ABOVE FOOTPRINT LAKE - STATION NO. 05TF002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	---	---	[illegible]	---	---	---	---	2.64	1.97	1.47	---	1977
1978	1.18	0.890	0.723	0.935	5.[illegible]	5.92	2.41	5.60	7.90	10.1	6.92	3.38	4.30	1978
1979	2.70	2.46	2.37	2.38	3.[illegible]	7.55	3.93	2.49	2.47	3.27	3.07	2.77	3.26	1979
1980	1.77	1.18	1.04	1.83	[illegible]	[illegible]	0.951	1.22	7.52	11.1	10.2	6.02	3.96	1980
1981	2.85	2.04	1.69	1.40	7.[illegible]	[illegible]	1.94	0.814	0.410	0.398	0.516	0.709	2.14	1981
1982	0.936	0.961	0.963	1.17	10.7	[illegible]	5.79	4.80	5.83	6.63	5.16	3.65	4.81	1982
1983	2.78	2.17	1.88	1.80	6.97	10.9	6.04	4.45	---	---	---	---	---	1983
1984	1.29	0.860	0.620	3.12	7.29	6.16	2.27	1.38	1.44	1.52	2.82	2.27	2.59	1984
1985	1.42	0.933	0.671	1.50	11.2	---	---	4.75	2.40	1.68	1.45	1.02	---	1985
1986	0.841	0.750	0.683	1.17	11.1	9.24	8.71	7.69	5.16	3.40	2.86	2.78	4.60	1986
1987	2.37	1.92	1.77	2.86	6.78	4.11	2.99	1.53	1.74	2.01	1.94	1.97	2.67	1987
1988	1.72	1.57	1.52	1.90	9.05	6.66	3.37	1.54	1.726	0.557	0.881	1.32	2.57	1988
1989	---	---	---	1.20	---	---	---	---	1.11	---	---	---	---	1989
1990	1.20	1.19	1.01	1.08	2.89	1.93	0.513	0.261	0.233	0.295	0.581	1.05	1.02	1990
MEAN	1.75	1.41	1.25	1.73	7.17	6.38	3.54	3.04	3.08	3.63	3.20	2.37	3.19	MEAN

LOCATION - LAT 55 55 50 N DRAINAGE AREA, 599 km²
LONG 098 53 10 W NATURAL FLOW

FOOTPRINT RIVER ABOVE FOOTPRINT LAKE - STATION NO. 05TF002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	---	---	---	1977
1978	11.4 AT 16:00 CST ON OCT 11	11.1 ON OCT 11	0.697 ON MAR 17	136 000	1978
1979	9.19 AT 12:12 CST ON JUN 07	5.13 ON JUN 07	2.25 ON SEP 15	103 000	1979
1980	---	11.7 E ON OCT 22	0.788E ON AUG 21	125 000	1980
1981	12.0 AT 21:00 CST ON MAY 21	11.6 ON MAY 20	0.259 ON OCT 03	67 600	1981
1982	13.0 AT 23:59 CST ON JUN 10	12.8 ON JUN 11	0.802 ON APR 04	152 000	1982
1983	11.7 AT 16:30 CST ON JUN 03	13.4 ON JUN 02	---	---	1983
1984	8.41 AT 14:40 CST ON MAY 24	8.28 ON MAY 26	0.509B ON APR 06	81 800	1984
1985	---	---	0.475B ON APR 16	---	1985
1986	15.4 AT 11:20 CST ON MAY 20 *	15.3 ON MAY 20 *	0.654B ON APR 01	145 000	1986
1987	8.50 AT 16:30 CST ON MAY 05	8.16 ON MAY 05	1.19 ON AUG 28	84 300	1987
1988	10.8 AT 14:58 CST ON MAY 14	10.8 ON MAY 14	0.451 ON OCT 16	81 400	1988
1989	---	---	---	---	1989
1990	4.10 AT 10:28 CST ON MAY 24	3.99 ON MAY 22	0.154 ON SEP 30 *	32 100	1990
				101 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

FORK RIVER NEAR ETHELBERT - STATION NO. 05LJ016

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	1.58	4.31	7.61	1.25	0.750	2.44	2.44	---	---	---	1954
1955	---	---	---	3.72	3.47	1.67	0.163	0	0	0	---	---	---	1955
1956	---	---	0.028	0.775	3.92	1.43	0.774	0.031	0.376	0.196	---	---	0.955	1956
1957	---	---	0.028	2.93	1.89	0.542	0.019	0	0.001	0	---	---	0.658	1957
1958	---	---	0.062	0.346	0.094	0.033	0.142	0.095	0.266	0.088	---	---	0.140	1958
1959	---	---	0.169	0.688	0.700	2.04	0.606	0.015	0.030	0.417	---	---	0.579	1959
1960	---	---	0	3.77	3.27	0.967	0.093	0.155	0.041	0	---	---	1.03	1960
1961	---	---	0.008	0.033	0.028	0.007	0	0	0	0	---	---	0.009	1961
1962	---	---	0	0.295	0.041	0.250	0.093	0	0	0	---	---	0.084	1962
1963	---	---	0.419	0.774	1.30	1.04	0.067	0	0	0	---	---	0.449	1963
1964	---	---	0	0.204	0.951	0.004	0	0	0	0	---	---	0.146	1964
1965	---	---	0	0.349	1.52	0.759	0.059	0.319	0.701	0.328	---	---	0.503	1965
1966	---	---	0.132	2.75	2.13	1.65	0.459	0.028	0	0	---	---	0.886	1966
1967	---	---	0	0.924	2.67	0.305	0.010	0.001	0	0	---	---	0.469	1967
1968	---	---	0.083	0.085	0.085	0.033	0.007	0.111	0.054	0.011	---	---	0.059	1968
1969	---	---	0	1.88	0.692	0.526	1.10	0.167	0.023	0.588	---	---	0.620	1969
1970	---	---	0.005	3.18	5.41	2.28	2.10	0.444	0.050	0.335	---	---	1.75	1970
1971	---	---	0.074	1.89	0.397	1.49	0.162	0.022	0	0.059	---	---	0.708	1971
1972	---	---	0	2.14	1.61	0.413	0.002	0	0	0	---	---	0.505	1972
1973	---	---	0.004	0.036	0.066	0.777	0.070	0.005	0.627	0.325	---	---	0.236	1973
1974	---	---	0	4.73	7.73	1.50	0.034	0	0.016	0.166	---	---	1.77	1974
1975	---	---	0	3.08	3.64	3.26	0.163	0.011	0.575	0.417	---	---	1.38	1975
1976	---	---	0.013	4.89	0.894	2.70	0.617	0.011	0.001	0	---	---	1.74	1976
1977	---	---	0	0.090	0.248	0.023	0.003	0.003	0.039	0.107	---	---	0.064	1977
1978	---	---	0.038	0.527	0.522	0.187	0.011	0.001	0.027	0.029	---	---	0.167	1978
1979	---	---	0	2.86	4.40	1.45	0.072	0.008	0	0.007	---	---	1.10	1979
1980	---	---	0	1.21	0.147	0.002	0.002	0.148	0.022	0.022	---	---	0.191	1980
1981	---	---	0.013	0.080	0.178	0.364	0.319	0.213	0.078	0.124	---	---	0.171	1981
1982	---	---	0.081	0.615	0.330	0.072	0.892	0.089	0.011	0.138	---	---	0.279	1982
1983	---	---	0	2.71	3.28	1.53	1.51	0.136	0.001	0.020	---	---	1.14	1983
1984	---	---	0.176	0.471	1.23	4.77	0.626	0.036	0.127	0.823	---	---	1.02	1984
1985	---	---	0.186	3.61	1.19	1.00	0.175	1.63	0.672	0.649	---	---	1.13	1985
1986	---	---	1.39	2.61	4.42	0.386	0.768	0.169	0.340	0.482	---	---	1.32	1986
1987	---	---	0.196	4.93	0.458	0.196	0.047	0.022	0.025	0.140	---	---	0.740	1987
1988	---	---	0.093	2.96	7.09	0.337	0.039	0.016	0.001	0.004	---	---	1.32	1988
1989	---	---	0	0.083	0.058	0.669	0.045	0.062	0.056	0.125	---	---	0.136	1989
1990	---	---	0.001	3.62	3.72	0.613	0.157	0	0.002	0.003	---	---	1.01	1990
MEAN	---	---	0.090	1.88	2.01	1.29	0.341	0.127	0.178	0.217	---	---	0.701	MEAN

LOCATION - LAT 51 31 20 N DRAINAGE AREA, 260 km²
LONG 100 22 10 W REGULATED

FORK RIVER NEAR ETHELBERT - STATION NO. 05LJ016

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1954	---	17.2 R ON JUN 02	0 B ON APR 01 *	---	1954
1955	---	16.5 ON MAY 04	0 ON JUL 23	---	1955
1956	---	7.28 ON MAY 09	0 ON AUG 04	20 200	1956
1957	---	9.40 ON APR 25	0 ON JUL 08	13 900	1957
1958	---	1.11 ON MAR 11	0 ON MAR 01	4 960	1958
1959	---	7.84 ON JUN 28	0 ON MAR 01	12 300	1959
1960	---	12.2 ON APR 11	0 B ON MAR 01	21 800	1960
1961	---	0.042B ON APR 20	0 B ON MAR 01	200	1961
1962	---	4.11 ON APR 18	0 ON MAR 01	1 770	1962
1963	---	4.02 ON APR 09	0 ON MAR 01	5 500	1963
1964	---	2.20 ON MAY 08	0 ON MAR 01	3 090	1964
1965	---	2.74 ON AUG 02	0 ON MAR 01	10 600	1965
1966	---	12.9 B ON APR 01	0 B ON MAR 01	18 800	1966
1967	---	8.78 ON APR 27	0 B ON MAR 01	10 400	1967
1968	---	0.515 ON MAR 27	0 B ON MAR 01	1 240	1968
1969	---	7.93 ON APR 13	0 B ON MAR 01	13 100	1969
1970	---	14.5 ON APR 26	0 ON SEP 11	37 000	1970
1971	---	18.5 B ON APR 11	0 ON AUG 27	16 300	1971
1972	---	8.55 B ON APR 16	0 B ON MAR 01	10 700	1972
1973	---	1.62 ON JUN 20	0 B ON MAR 01	4 990	1973
1974	---	43.6 B ON APR 19	0 B ON MAR 01	37 400	1974
1975	---	17.6 ON JUN 10	0 B ON MAR 01	29 300	1975
1976	---	54.7 ON JUN 13 *	0 ON AUG 24	36 700	1976
1977	---	0.674 ON MAY 06	0 B ON MAR 01	1 360	1977
1978	---	0.960 ON MAY 09	0 ON AUG 08	3 530	1978
1979	---	17.9 B ON APR 23	0 B ON MAR 01	23 200	1979
1980	---	3.98 B ON APR 06	0 B ON MAR 01	4 050	1980
1981	---	2.86 ON JUL 02	0 B ON MAR 01	3 620	1981
1982	---	5.14 ON JUL 17	0 B ON MAR 01	5 910	1982
1983	---	18.3 B ON APR 24	0 B ON MAR 01	24 200	1983
1984	64.6 AT 11:04 CST ON JUN 23 *	41.0 ON JUN 23	0 B ON MAR 01	21 700	1984
1985	9.73 AT 09:14 CST ON AUG 14	8.45 ON AUG 14	0.021B ON MAR 16	24 000	1985
1986	15.6 AT 15:04 CST ON MAY 10	14.7 ON MAY 10	0 B ON MAR 01	28 000	1986
1987	32.8 AT 21:39 CST ON APR 05	18.2 ON APR 06	0 ON SEP 06	15 700	1987
1988	48.2 AT 22:51 CST ON MAY 02	36.9 ON MAY 03	0 B ON MAR 01	28 000	1988
1989	---	3.35 A ON JUN 14	0 B ON MAR 01	2 870	1989
1990	20.7 AT 02:46 CST ON MAY 17	18.2 ON MAY 17	0 B ON MAR 01	21 400	1990
				14 900	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1989

GAINSBOROUGH CREEK NEAR LYLETON - STATION NO. 05NF007

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	0.019	5.54	0.787	0.248	0.103	0.031	0	0	0	---	0.828	1956
1957	---	---	0.236	0.355	0.143	0.101	0.015	0	0.006	0	---	---	0.106	1957
1958	---	---	0.508	1.63	0.074	0.002	0	0	0	0	---	---	0.273	1958
1959	---	---	0.073	0.032	0	0	0	0	0	0	---	---	0.013	1959
1960	---	---	0.042	1.90	0.128	0.025	0.001	0	0	0	---	---	0.257	1960
1961	---	---	0	0	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0	0	0	0	0	0	0	---	---	0	1962
1963	---	---	0	0	0	0	0	0	0	0	---	---	0	1963
1964	---	---	0	1.87	1.86	0.135	0.105	0.016	0.013	0.037	---	---	0.502	1964
1965	---	---	0	1.19	0.291	0.185	0.072	0.018	0.040	0.059	---	---	0.229	1965
1966	---	---	0.424	1.68	0.441	0.282	0.097	0.005	0.031	0.006	---	---	0.391	1966
1967	---	---	0.027	0.111	0.103	0.012	0	0	0	0	---	---	0.032	1967
1968	---	---	0.018	0.016	0.007	0	0.001	0.004	0.013	0.012	---	---	0.009	1968
1969	---	---	0	11.9	0.473	0.043	1.04	0.255	0.172	0.128	---	---	1.72	1969
1970	---	---	0	3.13	4.37	0.258	0.088	0.051	0.034	0.002	---	---	0.990	1970
1971	---	---	0.011	0.130	0.067	0.524	0.262	0.009	0.085	0.013	---	---	0.136	1971
1972	---	---	2.23	2.65	0.412	0.262	0.013	0.081	0.147	0.008	---	---	0.721	1972
1973	---	---	0.031	0.025	0.046	0.170	0.018	0.001	0.008	0.015	---	---	0.039	1973
1974	---	---	0	11.6	2.21	0.923	0.228	0.043	0	0.029	---	---	1.85	1974
1975	---	---	0.001	5.62	5.13	2.13	0.363	0.023	1.44	1.51	---	---	2.01	1975
1976	---	---	0.429	32.1	1.41	0.494	0.066	0.005	0.102	0.074	---	---	4.26	1976
1977	---	---	0.030	0.013	0.013	0	0	0	0	0	---	---	0.007	1977
1978	---	---	0.003	0.062	0.014	0.003	0	0	0	0	---	---	0.010	1978
1979	---	---	0	2.20	1.48	0.150	0.012	0	0	0	---	---	0.476	1979
1980	---	---	0	0.028	0	0	0	0	0	0	---	---	0.003	1980
1981	---	0.001	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	1.42	0.130	0.001	0	0	0	0	---	---	0.191	1982
1983	---	---	0.008	2.70	0.769	0.076	0.072	0	0	0	---	---	0.447	1983
1984	---	---	0.019	0.044	0.050	0.002	0	0	0	0	---	---	0.014	1984
1985	---	---	0.336	0.947	0.081	0.001	0	1.09	1.07	0.480	---	---	0.498	1985
1986	---	---	1.65	0.964	1.61	0.104	0.284	0.162	0.071	0.020	---	---	0.611	1986
1987	---	---	0.824	3.33	0.321	0.104	0.007	0.004	0.001	0	---	---	0.566	1987
1988	---	---	0	0.001	0.002	0	0	0	0	0	---	---	0	1988
1989	---	---	0	0.413	0.005	0.001	0	0	0	0	---	---	0.051	1989
1990	---	---	0	0	0	0	0	0	0	0	---	---	0	1990
MEAN	---	0.001	0.198	2.68	0.641	0.178	0.081	0.051	0.092	0.068	0	---	0.493	MEAN

LOCATION - LAT 49 05 45 N LONG 101 11 00 W DRAINAGE AREA 1 150 km² REGULATED SINCE 1962

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.006 AND 0 M3/S OCCURRED IN FEBRUARY

GAINSBOROUGH CREEK NEAR LYLETON - STATION NO. 05NF007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1956	---	20.3 ON APR 19	0 B ON MAR 01 *	17 500	1956
1957	---	0.878B ON MAR 29	0 B ON MAR 01	2 250	1957
1958	---	9.57 ON APR 04	0 B ON MAR 01	5 790	1958
1959	---	1.02 B ON MAR 27	0 B ON MAR 01	278	1959
1960	---	6.99 ON APR 05	0 B ON MAR 01	5 440	1960
1961	---	0 ON MAR 01	0 ON MAR 01	0	1961
1962	---	0 ON MAR 01	0 ON MAR 01	0	1962
1963	---	0 ON MAR 01	0 ON MAR 01	0	1963
1964	13.9 AT 02:00 CST ON MAY 07	10.3 ON MAY 09	0 ON MAR 01	10 600	1964
1965	7.96 AT 14:15 CST ON APR 17	4.81 ON APR 17	0 B ON MAR 01	4 850	1965
1966	---	5.10 B ON APR 06	0 B ON MAR 01	8 280	1966
1967	---	0.311A ON MAY 11	0 B ON MAR 01	669	1967
1968	---	0.057B ON MAR 20	0 B ON MAR 01	186	1968
1969	46.2 AT 16:40 CST ON APR 16	43.9 ON APR 16	0 B ON MAR 01	36 500	1969
1970	18.5 AT 11:15 CST ON MAY 01	18.0 ON MAY 01	0 B ON MAR 01	21 000	1970
1971	---	2.27 ON JUN 14	0 B ON MAR 01	2 880	1971
1972	---	7.11 B ON MAR 27	0 B ON MAR 01	15 300	1972
1973	2.62 AT 03:52 CST ON JUN 03	1.39 ON JUN 03	0 B ON MAR 01	825	1973
1974	53.8 AT 17:00 CST ON APR 17	45.3 A ON APR 17	0 B ON MAR 01	39 200	1974
1975	29.4 AT 10:17 CST ON APR 30	28.3 ON APR 30	0.001B ON MAR 01	42 600	1975
1976	94.3 AT 00:08 CST ON APR 12 *	87.2 ON APR 12 *	0.001 ON SEP 09	90 100	1976
1977	---	0.106B ON MAR 10	0 B ON MAR 01	152	1977
1978	---	0.122B ON APR 06	0 B ON MAR 01	212	1978
1979	15.4 AT 03:34 CST ON APR 27	12.5 ON APR 27	0 B ON MAR 01	10 100	1979
1980	---	0.090B ON APR 16	0 B ON MAR 01	72.4	1980
1981	---	0.002B ON MAR 01	0 B ON MAR 06	0.518	1981
1982	4.83 AT 19:58 CST ON APR 15	4.38 ON APR 21	0 B ON MAR 01	4 030	1982
1983	9.03 AT 14:51 CST ON APR 24	8.89 ON APR 24	0 B ON MAR 20	9 460	1983
1984	0.216 AT 20:18 CST ON APR 13	0.196 ON APR 14	0 B ON MAR 01	303	1984
1985	9.06 AT 07:18 CST ON AUG 26	8.28 ON AUG 26	0 B ON MAR 01	10 500	1985
1986	7.21 B AT 18:23 CST ON MAR 23	5.64 B ON MAR 23	0.004 ON JUL 04	12 900	1986
1987	11.3 AT 01:44 CST ON APR 07	10.8 ON APR 07	0 ON AUG 23	12 000	1987
1988	0.007 AT 17:50 CST ON MAY 04	0.006 ON MAY 05	0 B ON MAR 01	9.42	1988
1989	1.75 B AT 21:54 CST ON APR 08	1.30 B ON APR 05	0 B ON MAR 01	1 090	1989
1990	---	0 B ON MAR 01	0 B ON MAR 01	0	1990
				10 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GAINSBOROUGH CREEK NEAR MELITA - STATION NO. 05NF003

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1935	---	---	---	---	---	---	---	---	---	---	---	---	---	1935
1936	---	---	---	---	0.267	0.020	---	---	---	0.016	---	---	---	1936
1943	---	---	0	4.98	0.377	0.490	0.141	0.004	0	0	---	---	0.726	1943
1944	---	---	0	0.006	0.003	0.202	0.224	0.029	0.025	0.007	---	---	0.062	1944
1945	---	---	0.091	0.129	0.020	0.059	0.073	0.006	0	0	---	---	0.047	1945
1946	---	---	0.722	2.83	0.100	0.026	0.005	0	0	0	---	---	0.455	1946
1947	---	---	0	5.15	0.758	1.03	1.40	0.050	0.001	0	---	---	0.669	1947
1948	---	---	0	8.18	3.39	0.329	0.047	0.077	0.012	0.007	---	---	1.49	1948
1949	---	---	0	5.05	0.325	1.64	0.135	0.047	0.004	0	---	---	0.884	1949
1950	---	---	0.021	3.91	2.70	0.601	1.17	3.26	0.714	0.161	---	---	1.57	1950
1951	---	---	0	8.65	7.36	0.335	0.064	0.035	0.010	0	---	---	2.05	1951
1952	---	---	0.027	1.60	0.077	0	0.016	0	0	0	---	---	0.211	1952
1953	---	---	0.041	0.729	0.193	0.071	0.092	0.013	0	0	---	---	0.141	1953
1954	---	---	0	0.026	0	0.703	2.21	0.170	0.122	0.140	0.076	---	0.423	1954
1955	---	---	0.015	7.49	2.32	0.389	0.038	0.027	0	0	---	---	1.27	1955
MEAN	---	---	0.071	3.52	1.28	0.421	0.432	0.286	0.068	0.024	0.076	---	0.770	MEAN

LOCATION - LAT 49 09 50 N LONG 101 02 46 W DRAINAGE AREA, 1 460 km² NATURAL FLOW

REMARKS - HIGHER MAXIMUM DISCHARGES ARE KNOWN TO HAVE OCCURRED OUTSIDE THE STANDARD PERIOD IN 1945

GAINSBOROUGH CREEK NEAR MELITA - STATION NO. 05NF003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1935	---	---	---	---	1935
1936	---	---	---	---	1936
1943	---	20.1 ON APR 08	0B ON MAR 01 *	15 600	1943
1944	---	0.934 ON JUL 01	0B ON MAR 01	1 310	1944
1945	---	0.612E ON MAR 28	0E ON MAR 01	998	1945
1946	---	14.0 B ON APR 02	0B ON MAR 01	9 620	1946
1947	---	12.0 E ON JUN 29	0B ON MAR 01	14 200	1947
1948	---	36.8 ON APR 25 *	0B ON MAR 01	31 500	1948
1949	---	36.2 ON APR 12	0B ON MAR 01	18 700	1949
1950	---	11.2 ON APR 21	0B ON MAR 01	33 100	1950
1951	---	28.6 ON MAY 06	0B ON MAR 01	43 100	1951
1952	---	7.45 ON APR 10	0B ON MAR 01	4 470	1952
1953	---	3.31 ON APR 09	0B ON MAR 01	2 980	1953
1954	---	3.43 ON JUL 10	0B ON MAR 01	8 960	1954
1955	---	27.2 B ON APR 09	0B ON MAR 01	26 800	1955
				16 300	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GARLAND RIVER NEAR DUCK RIVER - STATION NO. 05LG006

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.057	0.425	5.45	1.29	0.079	0.044	0	0	---	---	0.922	1967
1968	---	---	0.363	1.29	0.640	0.615	0.099	0.841	0.085	0.145	---	---	0.507	1968
1969	---	---	0.104	3.86	1.07	0.782	2.17	0.414	0.293	1.53	---	---	1.27	1969
1970	---	---	0.207	4.38	7.40	3.26	2.50	1.01	0.208	0.595	---	---	2.44	1970
1971	---	---	0.221	7.00	1.47	3.53	0.524	0.252	0.005	0.416	---	---	1.65	1971
1972	---	---	0.088	4.23	2.91	0.480	0.212	0.452	0	0.063	---	---	0.997	1972
1973	---	---	0.028	0.665	0.630	2.08	0.541	0.031	0.283	0.242	---	---	0.586	1973
1974	---	---	0.020	6.76	10.1	2.29	0.218	0.105	0.458	0.421	---	---	2.54	1974
1975	---	---	0.125	3.03	4.47	3.44	0.273	0.065	0.744	0.834	---	---	1.61	1975
1976	---	---	0.133	7.41	1.56	5.88	0.770	0.071	0.016	0.052	---	---	1.96	1976
1977	---	---	0.071	0.906	0.927	0.144	0.103	0.106	0.701	0.617	---	---	0.445	1977
1978	---	---	0.074	1.82	1.05	0.803	0.109	0.001	0.100	0.173	---	---	0.511	1978
1979	---	---	0.047	4.34	9.52	3.65	0.106	0.006	0.020	0.107	---	---	2.22	1979
1980	---	---	0.003	1.55	0.349	0.010	0.043	0.981	0.091	0.146	---	---	0.395	1980
1981	---	---	0.059	0.807	0.780	1.40	0.229	0.084	0.019	0.243	---	---	0.449	1981
1982	---	---	0	1.06	0.942	0.496	2.63	0.457	0.004	0.770	---	---	0.799	1982
1983	---	---	0.034	5.19	6.29	1.89	1.11	0.095	0	0.078	---	---	1.85	1983
1984	---	---	0.226	1.12	1.92	6.61	0.462	0.002	0.068	0.381	---	---	1.33	1984
1985	---	---	0.190	5.24	0.550	0.446	0.101	1.29	0.423	0.548	---	---	1.09	1985
1986	---	---	1.02	5.16	5.38	0.397	0.432	0.172	0.272	0.350	---	---	1.64	1986
1987	---	---	0.149	3.50	0.490	0.364	0.130	0.023	0.014	0.198	---	---	0.601	1987
1988	---	---	0.027	3.50	13.5	0.470	0.041	0.002	0.005	0	---	---	2.45	1988
1989	---	---	0	0.608	0.401	0.989	0.267	0.001	0.002	0.072	---	---	0.292	1989
1990	---	---	0.141	4.06	6.84	1.77	0.719	0.004	0	0	---	---	1.69	1990
MEAN	---	---	0.141	3.33	3.53	1.80	0.588	0.255	0.157	0.333	---	---	1.26	MEAN

LOCATION - LAT 51 51 08 N LONG 100 14 58 W DRAINAGE AREA, 440 km² NATURAL FLOW

GARLAND RIVER NEAR DUCK RIVER - STATION NO. 05LG006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	11.4 AT 13:45 CST ON MAY 10	11.3 ON MAY 10	0 ON JUL 26 *	19 500	1967
1968	3.82 AT 09:30 CST ON AUG 22	3.71 ON AUG 22	0.001 ON SEP 17	10 700	1968
1969	---	10.2 ON APR 16	0.001 ON SEP 04	27 000	1969
1970	---	14.3 ON APR 28	0.042 ON SEP 20	51 700	1970
1971	21.8 AT 18:00 CST ON APR 11	19.1 A ON APR 11	0 ON SEP 23	35 000	1971
1972	13.7 B AT 10:10 CST ON APR 19	12.1 B ON APR 19	0 ON AUG 31	21 100	1972
1973	6.17 AT 00:01 CST ON JUN 23	5.95 ON JUN 22	0 B ON MAR 01	12 400	1973
1974	---	32.6 E ON APR 21	0.014 ON AUG 10	53 800	1974
1975	10.1 AT 14:57 CST ON MAY 01	9.91 ON MAY 01	0 ON AUG 17	34 200	1975
1976	20.0 AT 11:15 CST ON APR 09	18.7 ON APR 09	0 ON OCT 08	41 400	1976
1977	3.43 AT 11:16 CST ON SEP 28	3.37 ON SEP 28	0.014B ON MAR 01	9 420	1977
1978	3.88 AT 09:30 CST ON APR 19	2.89 ON APR 27	0 ON AUG 05	10 800	1978
1979	18.1 AT 00:39 CST ON APR 25	17.1 ON APR 24	0 ON AUG 15	47 000	1979
1980	3.03 AT 21:00 CST ON APR 18	2.96 ON APR 19	0 B ON MAR 01	8 360	1980
1981	3.51 AT 02:26 CST ON JUN 18	3.34 ON JUN 18	0 B ON MAR 01	9 500	1981
1982	11.2 AT 21:05 CST ON JUL 20	10.9 ON JUL 20	0 B ON MAR 01	16 900	1982
1983	30.0 AT 14:00 CST ON APR 25	28.5 A ON APR 25	0 ON SEP 01	39 300	1983
1984	35.5 AT 09:25 CST ON JUN 25	34.0 ON JUN 25	0 ON AUG 10	28 200	1984
1985	9.84 AT 21:21 CST ON AUG 16	9.05 ON AUG 16	0.002 ON AUG 08	23 000	1985
1986	14.9 B AT 02:54 CST ON APR 02	14.2 B ON APR 01	0 ON SEP 04	34 700	1986
1987	13.1 AT 20:00 CST ON APR 07	10.8 ON APR 08	0 ON AUG 28	12 700	1987
1988	70.5 AT 00:19 CST ON MAY 04 *	69.1 ON MAY 04 *	0 ON JUL 27	51 800	1988
1989	2.68 AT 14:40 CST ON JUN 14	2.40 ON JUN 29	0 B ON MAR 01	6 180	1989
1990	30.8 AT 05:40 CST ON MAY 19	25.7 ON MAY 19	0 ON AUG 09	35 800	1990
				26 700	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GARLAND RIVER NEAR GARLAND - STATION NO. 05LG003

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	0.169	0.111	0.070	0.144	0.091	0.236	0.185	---	---	---	1958
1959	---	---	0.170	0.469	0.502	1.22	0.162	0.041	0.179	0.409	---	---	0.392	1959
1960	---	---	0.024	0.817	2.05	0.624	0.075	0.037	0.006	0.022	---	---	0.457	1960
1961	---	---	0.003	0.100	0.131	0.008	0.005	0	0	0.025	---	---	0.034	1961
1962	---	---	0.025	0.645	0.139	0.099	0.033	0.035	0.062	0.074	0.071	---	0.137	1962
1963	---	---	0.048	1.99	0.598	0.527	0.105	0.019	0.038	0.085	---	---	0.311	1963
1964	---	---	0.014	0.732	0.468	0.041	0.011	0.018	0.031	0.048	---	---	0.169	1964
1965	---	---	0.004	0.778	1.10	0.342	0.254	0.232	0.821	0.295	---	---	0.476	1965
1966	---	---	0.104	1.00	1.32	1.02	0.161	0.133	0.018	0.065	---	---	0.475	1966
1967	---	---	0.043	0.363	1.87	0.407	0.068	0.120	0.085	0.072	---	---	0.380	1967
1968	---	---	0.235	0.475	0.348	0.223	0.206	0.308	0.104	0.110	---	---	0.251	1968
1969	---	---	0.071	1.21	0.613	0.956	1.39	0.106	0.185	0.860	---	---	0.673	1969
1970	---	---	0.059	0.684	2.94	1.47	1.10	0.244	0.219	0.666	---	---	0.924	1970
1971	---	---	0.052	1.13	0.361	0.792	0.214	0.056	0.029	0.255	---	---	0.358	1971
1972	---	---	0.068	1.22	0.973	0.125	0.069	0.031	0.016	0.053	---	---	0.318	1972
1973	---	---	0.059	0.276	0.432	1.05	0.241	0.037	0.316	0.321	---	---	0.339	1973
1974	---	---	0.065	1.92	2.97	0.709	0.106	0.061	0.308	0.226	---	---	0.793	1974
1975	---	---	0.059	1.30	1.70	1.29	0.082	0.070	0.389	0.295	---	---	0.643	1975
1976	---	---	0.067	2.00	0.482	1.28	0.108	0.044	0.029	0.060	---	---	0.502	1976
1977	---	---	0.048	0.354	0.417	0.087	0.075	0.072	0.471	0.199	---	---	0.214	1977
MEAN	---	---	0.064	0.817	0.976	0.617	0.230	0.088	0.177	0.216	0.071	---	0.413	MEAN

LOCATION - LAT 51 40 20 N LONG 100 29 30 W DRAINAGE AREA, 103 km^2 NATURAL FLOW

GARLAND RIVER NEAR GARLAND - STATION NO. 05LG003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE * (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	1.13 AT 09:00 CST ON AUG 30	1.08 ON AUG 30	0 E ON AUG 04 *	---	1958
1959	9.06 AT 19:00 CST ON JUN 28	8.10 ON JUN 28	0.028 ON JUL 26	8 290	1959
1960	6.77 AT 06:00 CST ON MAY 27	5.97 ON MAY 27	0 B ON MAR 01	9 670	1960
1961	---	0.272A ON APR 22	0 B ON MAR 02	718	1961
1962	7.48 AT 04:00 CST ON APR 21	1.60 ON APR 20	0 B ON MAR 01	2 910	1962
1963	7.45B AT 11:00 CST ON APR 08	5.61 RB ON APR 08	0 B ON MAR 01	6 580	1963
1964	3.65 AT 10:10 CST ON MAY 08	2.86 R ON MAY 08	0.003 ON JUL 27	3 580	1964
1965	6.40 AT 01:00 CST ON MAY 07	5.92 ON MAY 07	0.003B ON MAR 01	10 100	1965
1966	8.75 AT 02:30 CST ON MAY 05	5.27 ON MAY 05	0.006 ON SEP 22	10 100	1966
1967	8.24B AT 08:00 CST ON MAY 07	7.14 B ON MAY 07	0 ON SEP 06	8 040	1967
1968	---	1.48 B ON MAR 29	0.024 ON SEP 12	5 310	1968
1969	3.79B AT 08:43 CST ON APR 13	3.60 B ON APR 12	0 ON SEP 14	14 200	1969
1970	8.07 AT 07:11 CST ON MAY 07	6.94 ON MAY 07	0.004 ON AUG 22	19 500	1970
1971	5.75 AT 17:20 CST ON JUN 06	4.13 ON JUN 06	0.014 ON AUG 30	7 570	1971
1972	6.12 AT 05:20 CST ON APR 22	4.67 ON APR 22	0 ON SEP 03	6 720	1972
1973	7.76 AT 03:37 CST ON JUN 20	6.82 ON JUN 20	0 ON AUG 16	7 170	1973
1974	11.0 AT 01:28 CST ON MAY 22 *	10.3 ON MAY 22 *	0.003 ON AUG 11	16 800	1974
1975	8.89 AT 23:07 CST ON APR 28	6.34 ON APR 28	0.003 ON JUL 29	13 600	1975
1976	8.81 AT 07:30 CST ON APR 09	7.42 ON APR 09	0.014 ON AUG 24	10 600	1976
1977	3.54 AT 10:52 CST ON SEP 26	3.34 ON SEP 26	0.021 ON JUL 04	4 540	1977
				8 740	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1989

GARLAND RIVER NEAR PULP RIVER - STATION NO. 05LG002

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	3.78	5.30	10.3	3.32	0.314	1.84	2.12	0.630	---	---	1954
1955	---	---	---	5.28	5.21	3.72	0.311	0.037	0.017	0.145	---	---	---	1955
1956	---	---	0	0.767	3.19	2.42	2.02	0.277	0.380	0.441	---	---	1.42	1956
1957	---	---	0	4.00	3.77	0.397	0	0	0	0	---	---	0.952	1957
1958	---	---	0.100	0.413	0.306	0.104	0.228	0.101	0.249	0.236	---	---	0.217	1958
1959	---	---	---	1.30	1.06	6.86	2.51	0.137	0.894	2.21	---	---	---	1959
1960	---	---	0	5.88	7.91	3.99	0.258	0.074	0	0	---	---	2.25	1960
1961	---	---	0.014	0.339	0.783	0.138	0	0	0	0	---	---	0.159	1961
1963	---	---	0.099	1.28	1.70	1.79	0.507	0.039	0	0.005	---	---	0.673	1963
1964	---	---	0.057	0.731	1.18	0.168	0.005	0	0	0.032	---	---	0.271	1964
1965	---	---	0	1.38	2.80	1.92	0.275	0.458	1.33	0.504	---	---	0.969	1965
1966	---	---	0.050	4.46	3.69	2.38	0.809	0.138	0.062	0.033	---	---	1.44	1966
MEAN	---	---	0.036	2.47	3.20	2.76	0.854	0.131	0.398	0.477	0.630	---	0.928	MEAN

LOCATION - LAT 51 48 20 N LONG 100 18 16 W DRAINAGE AREA, 403 km² NATURAL FLOW

GARLAND RIVER NEAR PULP RIVER - STATION NO. 05LG002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	19.5 ON MAY 30	0B ON APR 01 *	---	1954
1955	---	15.0 ON MAY 06	0 ON AUG 21	---	1955
1956	---	7.22 ON MAY 11	0B ON MAR 01	30 000	1956
1957	---	13.3 ON APR 26	0B ON MAR 01	20 100	1957
1958	---	1.13 ON APR 04	0B ON MAR 01	4 590	1958
1959	---	20.9 ON JUN 30 *	---	---	1959
1960	---	19.2 ON MAY 30	0B ON MAR 01	47 600	1960
1961	---	6.57E ON MAY 21	0B ON MAR 01	3 370	1961
1963	---	7.42 ON APR 11	0B ON MAR 01	14 300	1963
1964	---	3.77 ON MAY 10	0 ON JUL 15	5 740	1964
1965	---	7.33 ON MAY 09	0B ON MAR 01	20 500	1965
1966	---	10.2 B ON APR 06	0 ON SEP 24	30 500	1966
				19 600	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GAUER RIVER BELOW THORSTEINSON LAKE - STATION NO. 06FA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	23.6	17.8	13.4	10.3	---	---	70.3	42.9	37.5	50.1	40.6	26.1	---	1979
1980	14.3	12.8	12.2	15.1	25.2	43.6	70.1	106	159	105	74.6	39.5	56.5	1980
1981	21.0	17.2	15.2	14.0	64.8	68.4	38.2	20.5	13.1	10.5	9.81	9.03	25.3	1981
1982	8.82	8.93	9.08	9.86	79.3	115	70.8	---	---	---	53.0	32.4	---	1982
1983	24.1	20.0	16.8	14.2	38.3	109	69.1	64.4	79.7	87.3	62.1	35.7	51.7	1983
1984	28.1	20.5	14.1	39.2	81.5	78.3	44.7	24.1	19.5	16.9	11.4	11.2	32.5	1984
1985	12.6	10.0	10.9	19.8	109	74.4	66.7	45.5	24.6	13.8	10.2	8.74	34.0	1985
1986	7.31	6.75	8.09	11.7	142	159	154	101	62.7	39.3	23.7	17.4	61.5	1986
1987	14.4	13.3	13.2	25.3	73.1	58.9	45.5	34.1	36.9	37.9	29.0	16.3 R	33.5 R	1987
1988	17.8	15.9	13.1	11.1	64.9	97.3	79.2	77.4	54.2	35.5	27.9	17.5	42.4	1988
1989	13.9	11.4	9.66	8.61	72.1	108	76.3	39.2	34.2	24.2	17.5	12.6	35.7	1989
1990	10.6	9.73	9.50	9.45	---	---	---	---	---	26.4	21.7	18.5	---	1990
MEAN	16.4	13.7	12.1	15.7	75.0	91.2	71.4	55.5	52.4	40.6	31.5	20.4 R	41.5 R	MEAN

LOCATION - LAT 57 10 06 N LONG 097 31 24 W DRAINAGE AREA, 5 960 km² NATURAL FLOW

R - REVISED SINCE JAN 01 1989

GAUER RIVER BELOW THORSTEINSON LAKE - STATION NO. 06FA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	104 AT 23:60 CST ON JUN 28	98.0 ON JUN 30	9.60B ON APR 19	---	1979
1980	207 AT 22:14 CST ON SEP 08	201 ON SEP 07	11.6 B ON APR 16	1 790 000	1980
1981	92.1 AT 21:00 CST ON MAY 16	92.0 ON MAY 14	8.42 ON OCT 12	798 000	1981
1982	129 AT 04:54 CST ON JUN 09	128 ON JUN 10	8.80B ON JAN 01	---	1982
1983	122 AT 00:10 CST ON JUN 04	122 ON JUN 04	12.5 B ON MAY 11	1 630 000	1983
1984	97.3 AT 17:40 CST ON MAY 28	97.3 ON MAY 28	9.87B ON APR 16	1 030 000	1984
1985	134 AT 03:00 CST ON MAY 18	122 ON MAY 20	8.34B ON DEC 26	1 070 000	1985
1986	225 AT 10:30 CST ON MAY 21 *	222 ON MAY 21 *	6.55B ON JAN 29 *	1 940 000	1986
1987	76.5 AT 08:42 CST ON MAY 18	76.7 ON MAY 10	11.9 RB ON DEC 31	1 060 000	1987
1988	106 AT 14:00 CST ON JUN 10	103 ON JUN 10	10.2 B ON APR 19	1 340 000	1988
1989	132 AT 12:35 CST ON MAY 31	126 ON MAY 29	8.34B ON APR 20	1 130 000	1989
1990	---	---	---	---	1990
				1 310 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1989

GIMBY CREEK NEAR CARTWRIGHT - STATION NO. 05QA015

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	---	---	0	5.33	1.79	0.104	---	---	---	---	---	---	1.79	1979
1980	---	---	0	0.355	0.003	0	---	---	---	---	---	---	0.088	1980
1981	---	0.235	0.071	0.029	0.026	0.030	---	---	---	---	---	---	0.039	1981
1982	---	---	0.082	2.90	0.295	0.165	---	---	---	---	---	---	0.849	1982
1983	---	---	0.190	1.78	0.253	0.090	0.103	---	---	---	---	---	0.572	1983
1984	---	---	0.243	0.242	0.304	0.015	---	---	---	---	---	---	0.202	1984
1985	---	---	0.797	0.179	0.013	0.002	---	---	---	---	---	---	0.250	1985
1986	---	---	0.612	0.329	0.194	0.014	---	---	---	---	---	---	0.289	1986
1987	---	---	1.01	1.51	0.015	0	---	---	---	---	---	---	0.631	1987
1988	---	---	0	0.006	0	0	---	---	---	---	---	---	0.002	1988
1989	---	---	0	1.01	0.003	0.002	---	---	---	---	---	---	0.251	1989
1990	---	---	0.037	0.262	0.001	0.004	---	---	---	---	---	---	0.075	1990
MEAN	---	0.235	0.254	1.16	0.241	0.036	0.103	---	---	---	---	---	0.420	MEAN

LOCATION - LAT 49 04 40 N
LONG 099 21 00 W
DRAINAGE AREA, 220 km²
NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.19 AND O M3/ OCCURRED IN FEBRUARY

GIMBY CREEK NEAR CARTWRIGHT - STATION NO. 05QA015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	---	43.4 B ON APR 22 *	0 B ON MAR 01 *	18 900	1979
1980	5.68 AT 17:29 CST ON APR 05	2.42 ON APR 06	0 B ON MAR 01	928	1980
1981	---	0.216B ON MAR 20	0.011A ON APR 20	415	1981
1982	11.2 B AT 16:15 CST ON APR 13 *	10.4 B ON APR 13	0 B ON MAR 01	8 950	1982
1983	---	4.85 B ON APR 02	0 B ON MAR 01	6 030	1983
1984	---	1.46 B ON MAR 26	0 B ON MAR 01	2 130	1984
1985	9.01B AT 20:00 CST ON MAR 19	4.59 B ON MAR 19	0 B ON MAR 01	2 640	1985
1986	---	2.53 B ON MAR 17	0 B ON MAR 01	3 050	1986
1987	---	8.47 B ON MAR 27	0 B ON MAR 01	6 650	1987
1988	---	0.039A ON APR 03	0 B ON MAR 01	17.1	1988
1989	---	10.1 B ON APR 04	0 B ON MAR 01	2 640	1989
1990	3.75B AT 02:02 CST ON APR 01	2.76 B ON APR 01	0 B ON MAR 01	791	1990
				4 430	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GODS RIVER BELOW ALLEN RAPIDS - STATION NO. 04AC005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1933	---	---	91.5	94.4	88.7	98.4	111	114	115	115	118	121	---	1933
1934	123	127	129	110	119	193	314	338	303	267	243	227	208	1934
1935	203	177	155	143	144	151	142	122	116	111	---	---	---	1935
1936	---	---	---	117	119	153	204	213	204	178	161	150	---	1936
1937	140	128	118	108	132	203	288	297	266	242	225	210	197	1937
1938	197	186	165	155	164	201	250	271	247	210	163	141	196	1938
1939	126	115	104	91.6	94.4	123	183	221	213	181	161	158	148	1939
1940	152	140	128	118	120	151	158	153	136	118	105	101	132	1940
1941	95.7	93.5	91.4	95.6	125	173	197	201	176	159	141	138	141	1941
1942	136	134	133	125	114	127	146	161	196	218	214	200	159	1942
1943	183	174	160	148	156	176	192	188	180	174	171	166	172	1943
1944	158	144	129	117	114	107	111	117	117	113	114	116	121	1944
1947	---	---	---	---	---	---	---	---	---	311	281	253	---	1947
1948	222	194	166	152	141	128	125	118	99.0	86.7	78.1	73.9	132	1948
1949	71.9	70.3	68.8	67.6	72.0	78.2	94.5	103	115	167	246	302	122	1949
1950	287	244	205	179	184	236	284	307	295	254	212	201	241	1950
1951	189	171	155	142	157	179	196	206	224	264	275	255	202	1951
1952	223	209	164	146	152	189	258	339	387	375	339	320	257	1952
1953	276	233	197	173	169	173	259	294	276	223	199	190	222	1953
1954	173	158	146	135	130	140	164	172	159	143	134	130	149	1954
1955	131	126	121	121	147	198	267	337	319	287	265	233	213	1955
1956	199	179	163	154	151	164	182	179	160	141	132	123	160	1956
1957	117	112	108	106	113	130	160	178	167	150	136	122	133	1957
1958	117	113	107	104	106	115	138	172	172	170	168	166	137	1958
1959	155	148	140	137	161	276	404	410	359	332	309	277	260	1959
1960	243	206	153	147	162	178	195	191	166	143	131	119	169	1960
1961	111	104	97.7	91.3	97.7	103	98.4	94.7	89.4	81.2	80.8	63.9	92.6	1961
1962	57.1	62.6	72.6	83.7	88.5	105	119	122	131	131	125	115	101	1962
1963	103	101	107	113	130	171	210	208	189	174	158	148	151	1963
1964	138	128	119	116	126	148	167	171	159	140	128	119	138	1964
1965	112	107	102	101	114	163	218	252	247	236	224	205	174	1965
1966	161	159	143	132	136	178	237	264	256	229	207	191	193	1966
1967	174	155	133	128	137	234	352	377	324	259	213	186	223	1967
1968	165	147	133	120	124	163	226	261	271	260	245	229	195	1968
1969	210	190	167	149	138	135	136	134	137	159	198	230	165	1969
1970	231	215	193	168	162	179	200	202	189	181	185	197	192	1970
1971	201	188	174	160	175	210	233	235	214	177	157	147	189	1971
1972	138	128	116	103	119	145	160	162	145	130	119	112	132	1972
1973	107	101	96.4	94.7	102	134	175	195	179	178	185	189	145	1973
1974	183	166	155	144	146	176	199	208	189	167	153	142	169	1974
1975	135	125	119	111	115	129	145	169	188	198	195	186	151	1975
1976	173	158	141	126	119	112	109	106	108	99.4	90.6	84.2	119	1976
1977	80.8	78.0	76.1	75.0	80.3	82.5	90.7	77.7	83.3	89.4	89.9	88.3	81.9	1977
1978	88.1	86.4	82.3	81.4	94.1	109	115	122	123	140	161	166	114	1978
1979	157	153	151	143	154	221	299	317	279	244	225	201	212	1979
1980	185	174	162	146	146	145	137	127	117	114	114	116	140	1980
1981	114	109	102	95.2	96.8	102	110	111	106	107	118	128	108	1981
1982	130	126	119	112	120	134	146	162	174	171	164	166	144	1982
1983	162	153	145	133	144	205	247	253	233	204	180	158	185	1983
1984	140	126	119	117	125	139	155	155	141	128	116	106	131	1984
1985	97.9	92.0	88.6	90.1	107	150	227	267	265	241	218	193	170	1985
1986	169	151	135	124	154	201	218	213	184	162	149	139	167	1986
1987	130	121	111	108	118	127	---	---	147	143	137	131	---	1987
1988	124	118	110	102	108	128	128	119	104	89.5	79.8	72.2	107	1988
1990	107	99.9	95.1	94.8	108	158	198	213	203	176	155	140	146	1990
MEAN	154	142	129	121	128	156	190	202	192	181	172	164	162	MEAN

LOCATION - LAT 55 01 35 N
LONG 093 50 10 W

DRAINAGE AREA, 25 900 km²
NATURAL FLOW

GODS RIVER BELOW ALLEN RAPIDS - STATION NO. 04AC005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1933	---	---	---	---	1933
1934	---	368 ON AUG 04	106 ON APR 28	6 570 000	1934
1935	---	---	---	---	1935
1936	---	---	---	---	1936
1937	---	303 ON JUL 28	105 ON APR 23	6 210 000	1937
1938	---	277 ON AUG 05	134 ON DEC 31	6 180 000	1938
1939	---	227 ON AUG 17	86.4 ON APR 29	4 670 000	1939
1940	---	158 ON JUN 23	99.1 ON DEC 30	4 160 000	1940
1941	---	210 ON AUG 04	90.6 ON APR 08	4 440 000	1941
1942	---	223 ON OCT 21	111 ON MAY 19	5 010 000	1942
1943	---	195 ON JUL 20	144 ON APR 20	5 440 000	1943
1944	---	161 ON JUN 01	105 ON JUN 10	3 840 000	1944
1947	---	---	---	---	1947
1948	---	236 ON JAN 01	72.5 ON DEC 29	4 170 000	1948
1949	---	306 ON DEC 14	67.1 ON APR 17	3 840 000	1949
1950	---	311 E ON AUG 22	168 ON APR 30	7 590 000	1950
1951	---	277 ON NOV 18	137 ON APR 29	6 360 000	1951
1952	---	394 ON SEP 16	143 ON APR 16	8 130 000	1952
1953	---	303 ON JAN 01	161 ON JUN 15	7 000 000	1953
1954	---	181 ON JAN 01	127 ON MAY 21	4 690 000	1954
1955	---	343 ON AUG 19	119 ON APR 03	6 720 000	1955
1956	---	219 ON JAN 01	119 ON DEC 31	5 070 000	1956
1957	---	180 ON AUG 08	105 ON APR 04	4 200 000	1957
1958	---	174 R ON AUG 06	103 ON APR 08	4 330 000	1958
1959	---	436 ON JUL 25 *	135 ON MAR 28	8 190 000	1959
1960	---	251 ON JAN 01	115 B ON DEC 30	5 360 000	1960
1961	---	115 B ON JAN 01	56.9B ON DEC 31	2 920 000	1961
1962	137 AT 18:00 CST ON SEP 22	135 ON SEP 22	56.1B ON JAN 05 *	3 190 000	1962
1963	218 AT 18:00 CST ON AUG 06	217 ON AUG 07	100 B ON FEB 02	4 770 000	1963
1964	186 AT 05:35 CST ON JUL 23	175 ON AUG 03	116 E ON APR 01	4 370 000	1964
1965	---	257 RE ON AUG 15	101 B ON MAR 21	5 480 000	1965
1966	272 AT 15:30 CST ON AUG 28	266 ON AUG 11	127 B ON APR 26	6 090 000	1966
1967	---	388 A ON AUG 15	128 B ON APR 15	7 040 000	1967
1968	278 AT 15:30 CST ON SEP 23 *	274 ON SEP 13	116 ON MAY 01	6 170 000	1968
1969	---	236 ON DEC 31	130 A ON AUG 30	5 210 000	1969
1970	---	236 A ON JAN 01	158 ON MAY 05	6 040 000	1970
1971	245 AT 12:00 CST ON AUG 18	239 ON AUG 15	140 E ON DEC 31	5 970 000	1971
1972	168 AT 13:46 CST ON JUL 30	167 ON JUL 30	96.8E ON APR 28	4 170 000	1972
1973	200 AT 16:35 CST ON AUG 17	200 ON AUG 18	93.7 ON APR 18	4 580 000	1973
1974	215 AT 19:00 CST ON AUG 10	213 ON AUG 06	138 ON DEC 24	5 330 000	1974
1975	212 AT 09:30 CST ON OCT 19	201 ON OCT 19	109 ON APR 28	4 770 000	1975
1976	181 AT 12:30 CST ON JAN 02	179 ON JAN 01	82.7 ON DEC 29	3 750 000	1976
1977	93.4 AT 03:00 CST ON NOV 05	92.9 ON NOV 03	73.1 ON APR 11	2 580 000	1977
1978	---	169 B ON NOV 29	81.3B ON MAR 26	3 600 000	1978
1979	---	326 A ON AUG 05	139 ON APR 17	6 700 000	1979
1980	193 B AT 00:01 CST ON JAN 01	192 B ON JAN 01	111 ON OCT 10	4 430 000	1980
1981	132 AT 08:43 CST ON DEC 25	132 ON DEC 25	92.3 ON APR 20	3 420 000	1981
1982	---	176 E ON SEP 09	108 ON APR 23	4 530 000	1982
1983	263 AT 11:30 CST ON AUG 04	260 ON AUG 03	128 ON APR 23	5 830 000	1983
1984	159 AT 04:30 CST ON JUL 22	159 ON JUL 21	101 B ON DEC 31	4 130 000	1984
1985	277 AT 21:27 CST ON SEP 03	276 ON SEP 04	87.9B ON MAR 26	5 360 000	1985
1986	223 AT 22:50 CST ON AUG 07	222 ON AUG 01	121 B ON APR 15	5 260 000	1986
1987	---	---	103 B ON APR 06	---	1987
1988	137 AT 10:53 CST ON JUL 07	132 ON JUN 26	68.9B ON DEC 31	3 380 000	1988
1990	---	216 ON AUG 09	93.8B ON APR 05	4 600 000	1990
				5 120 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1989

GODS RIVER NEAR SHAMATTAWA - STATION NO. 04AD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	---	---	---	---	---	---	601	689	---	---	---	1968
1970	207	218	233	253	464	950	655	429	413	676	650	312	457	1970
1971	251	259	229	331	866	669	681	622	441	316	452	301	453	1971
1972	166	148	154	175	803	659	424	333	404	452	226	165	343	1972
1973	158	155	146	155	633	508	510	403	374	896	589	441	416	1973
1974	294	268	249	250	752	908	580	468	519	438	250	195	432	1974
1975	182	174	163	241	852	545	450	660	682	---	---	---	---	1975
1976	316	257	212	255	906	329	472	385	595	362	193	109	367	1976
1977	88.4	103	110	330	366	216	273	321	496	337	270	203	260	1977
1978	160	146	135	138	913	586	692	768	765	635	384	300	468	1978
1979	264	243	222	238	864	816	754	593	442	471	417	310	471	1979
1980	246	224	210	387	964	470	469	393	552	538	302	229	416	1980
1981	210	176	152	136	793	725	546	456	369	647	344	279	405	1981
1982	240	211	186	170	1 110	758	430	415	446	442	386	288	425	1982
1983	258	230	206	190	1 140	1 180	627	584	736	642	471	312	549	1983
1984	257	223	191	537	731	685	521	330	374	396	273	231	396	1984
1985	201	175	149	399	1 120	1 790	1 120	596	579	713	435	275	631	1985
1986	250	232	209	200	---	583	550	672	510	499	361R	263R	---	1986
1987	209	184	174	---	---	---	---	---	588	417	313	241	---	1987
1988	200	182	177	174	1 000	509	279	265	196	198	157	111	288	1988
1989	91.2	86.4	82.8	79.8	---	---	---	---	---	301	253	182	---	1989
1990	---	---	---	172	---	---	474	416	371	344	303	248	---	1990
MEAN	212	195	179	241	840	716	551	479	498	496	351R	250R	424 R	MEAN

LOCATION - LAT 55 51 00 N
LONG 092 05 55 W
DRAINAGE AREA, 65 500 km²
NATURAL FLOW

R - REVISED SINCE JAN 01 1989

GODS RIVER NEAR SHAMATTAWA - STATION NO. 04AD002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	---	---	---	1968
1970	1 250 AT 09:12 CST ON JUN 11	1 240 ON JUN 11	204 B ON JAN 01	14 400 000	1970
1971	1 180B AT 00:00 CST ON MAY 11	1 160B ON MAY 11	161 B ON APR 13	14 300 000	1971
1972	1 140 AT 08:00 CST ON MAY 20	1 110 ON MAY 19	138 B ON DEC 15	10 900 000	1972
1973	1 330 AT 15:00 CST ON OCT 16	1 330 ON OCT 16	140 B ON MAR 23	13 100 000	1973
1974	1 170 AT 14:00 CST ON JUN 09	1 150 ON JUN 09	183 B ON DEC 30	13 600 000	1974
1975	---	---	---	---	1975
1976	---	---	---	---	1976
1977	---	1 780E ON MAY 14	92.0B ON DEC 31	11 600 000	1977
1978	---	813B ON APR 25	84.7B ON JAN 12	8 200 000	1978
1979	---	1 700E ON MAY 13	133 B ON MAR 17	14 800 000	1979
1980	---	1 370B ON MAY 24	214 B ON MAR 28	14 900 000	1980
1981	---	1 690B ON MAY 03	207 B ON MAR 17	13 200 000	1981
1982	---	1 760B ON MAY 18	130 B ON APR 25	12 800 000	1982
1983	2 860 AT 14:00 CST ON MAY 27 *	2 130B ON MAY 03	161 B ON APR 24	13 400 000	1983
1984	1 030 AT 07:10 CST ON JUN 27	2 790B ON MAY 27 *	188 B ON APR 14	17 300 000	1984
1985	2 750 AT 20:00 CST ON JUN 27	1 030 ON JUN 27	169 B ON APR 07	12 500 000	1985
1986	---	2 740 ON JUN 27	125 B ON APR 15	19 900 000	1986
1987	---	---	199 B ON APR 16	---	1987
1988	---	---	---	---	1988
1989	---	1 990B ON MAY 05	97.9B ON DEC 31	9 120 000	1989
1990	---	---	77.9B ON APR 25 *	---	1990
		---	---	---	
			---	---	
				13 400 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GOPHER CREEK NEAR GLADSTONE - STATION NO. 05LL024

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	3.83	0.376	0.003	0.011	0	0	0	---	---	1.04	1974
1975	---	---	0	0.122	0.023	0.020	0	0.011	0.031	0.018	---	---	0.041	1975
1976	---	---	0.002	1.97	0.006	0.004	0	0	0	0	---	---	0.487	1976
1977	---	---	0.005	0	0.002	0.007	---	---	---	---	---	---	0.003	1977
1978	---	---	0.003	0.098	0.008	0.007	---	---	---	---	---	---	0.028	1978
1979	---	---	0	2.04	0.263	0.033	---	---	---	---	---	---	0.576	1979
1980	---	---	0	0.015	0	0	---	---	---	---	---	---	0.004	1980
1981	---	---	0.001	0.001	0.004	0.006	---	---	---	---	---	---	0.003	1981
1982	---	---	0.003	0.207	0.002	0	---	---	---	---	---	---	0.052	1982
1983	---	---	0	0.329	0.003	0.005	---	---	---	---	---	---	0.083	1983
1984	---	---	0.002	0.001	0.009	0.001	---	---	---	---	---	---	0.003	1984
1985	---	---	0.079	0.028	0.003	0.001	---	---	---	---	---	---	0.028	1985
1986	---	---	0.094	0.180	0.471	0.003	---	---	---	---	---	---	0.189	1986
1987	---	---	0.045	0.227	0.002	0	---	---	---	---	---	---	0.068	1987
1988	---	---	0.001	0.007	0.008	0	---	---	---	---	---	---	0.004	1988
1989	---	---	0	0.004	0	0.007	---	---	---	---	---	---	0.003	1989
1990	---	---	0.028	0.013	0.004	0.001	---	---	---	---	---	---	0.012	1990
MEAN	---	---	0.015	0.534	0.070	0.006	0.004	0.004	0.010	0.006	---	---	0.154	MEAN

LOCATION - LAT 50 13 27 N
LONG 098 58 36 W
DRAINAGE AREA, 50 km²
NATURAL FLOW

GOPHER CREEK NEAR GLADSTONE - STATION NO. 05LL024

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	15.9 B ON APR 20 *	OB ON MAR 01 *	10 900	1974
1975	---	0.756B ON APR 20	OB ON MAR 01	429	1975
1976	---	13.1 ON APR 08	OB ON MAR 01	5 130	1976
1977	---	0.037 ON JUN 13	OB ON MAR 01	36.5	1977
1978	---	0.402 ON APR 09	OB ON MAR 01	300	1978
1979	---	10.9 ON APR 24	OB ON MAR 01	6 070	1979
1980	---	0.052B ON APR 05	OB ON MAR 01	37.6	1980
1981	0.024 AT 18:18 CST ON MAY 29	0.021 ON MAY 30	OB ON MAR 01	30.5	1981
1982	1.97 A AT 12:00 CST ON APR 25	1.88 A ON APR 15	OB ON MAR 01	552	1982
1983	1.16 AT 13:34 CST ON APR 24	1.03 ON APR 24	OB ON MAR 01	873	1983
1984	0.105B AT 14:03 CST ON MAY 03	0.036B ON MAY 03	OB ON MAR 01	32.9	1984
1985	0.596B AT 15:59 CST ON MAR 27	0.384B ON MAR 25	OB ON MAR 01	296	1985
1986	6.68 AT 01:30 CST ON MAY 06 *	4.87 ON MAY 06	OB ON MAR 01	1 990	1986
1987	2.21 AT 03:37 CST ON APR 08	1.67 ON APR 08	OB ON MAR 01	716	1987
1988	---	0.062B ON APR 03	OB ON MAR 01	41.4	1988
1989	0.123B AT 22:03 CST ON APR 02	0.082 ON JUN 13	OB ON MAR 01	30.0	1989
1990	0.830B AT 15:30 CST ON MAR 13	0.274B ON MAR 13	OB ON MAR 01	122	1990
				1 620	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GOPHER CREEK NEAR VIRDEN - STATION NO. 05MG003

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.107	0.051	0.021	0	0	0	0	0	---	---	0.022	1959
1960	---	---	0	1.40	0.078	0.026	0	0	0	0	---	---	0.185	1960
1961	---	---	0	0.123	0.010	0	0	0	0	0	---	---	0.016	1961
1962	---	---	0	0.498	0.038	0.189	0	0.080	0	0	---	---	0.099	1962
1963	---	---	0.805	0.244	0.129	0.736	0.102	0.001	0.001	0	---	---	0.251	1963
1964	---	---	0	1.43	0.776	0.075	0.002	0	0	0	---	---	0.283	1964
1965	---	---	0	1.80	0.148	0.099	0.841	0.045	0.282	0.334	---	---	0.440	1965
1966	---	---	0.223	0.550	0.311	0.003	0	0	0	0	---	---	0.135	1966
1967	---	---	0	1.29	0.341	0.009	0	0	0	0	---	---	0.202	1967
1968	---	---	0.389	0.033	0.111	0.004	0	0	0	0	---	---	0.068	1968
1969	---	---	0	4.01	0.281	0.017	0.540	0.053	0	0.056	---	---	0.610	1969
1970	---	---	0	2.64	1.49	0.175	0.217	0.140	0.059	0.127	---	---	0.603	1970
1971	---	---	0.012	0.540	0.114	0.829	0.288	0.012	0.041	0.097	---	---	0.239	1971
1972	---	---	1.25	0.970	0.118	0.013	0.001	0.001	0.001	0.001	---	---	0.295	1972
1973	---	---	0.088	0.050	0.085	0.013	0.102	0.013	0.025	0.137	---	---	0.065	1973
1974	---	---	0.001	3.70	0.795	0.080	0	0	0	0	---	---	0.564	1974
1975	---	---	0	2.34	0.907	0.471	0.029	0.058	0.408	0.170	---	---	0.541	1975
1976	---	---	0	11.6	0.259	0.114	0.049	0	0	0	---	---	1.47	1976
1977	---	---	0.007	0.019	0.149	0.005	0	0	0	0	---	---	0.023	1977
1978	---	---	0.016	0.276	0.082	0.008	0	0	0	0	---	---	0.047	1978
1979	---	---	0	2.12	0.541	0.130	0.002	0	0	0	---	---	0.344	1979
1980	---	---	0	0.095	0	0	0	0	0	0	---	---	0.012	1980
1981	---	0.130	0.074	0	0.001	0	0	0	0	0	---	---	0.009	1981
1982	---	---	0	0.880	0.022	0.011	0	0	0	0	---	---	0.112	1982
1983	---	---	0	1.70	0.051	0.023	0	0	0	0	---	---	0.217	1983
1984	---	---	0	0	0	0	0	0	0	0	---	---	0	1984
1985	---	---	0.713	0.109	0.028	0	0	0.017	0.020	0.035	---	---	0.116	1985
1986	---	---	0.509	0.189	0.390	0.010	0.012	0	0	0	---	---	0.140	1986
1987	---	---	0.303	1.05	0.029	0.034	0	0	0	0	---	---	0.175	1987
1988	---	---	0	0	0	0	0	0	0	0	---	---	0	1988
1989	---	---	0	0.033	0	0	0	0	0	0	---	---	0.004	1989
1990	---	---	0.020	0.235	0.002	0.005	0.171	0	0	0	---	---	0.054	1990
MEAN	---	0.130	0.141	1.25	0.228	0.096	0.074	0.013	0.026	0.030	---	---	0.229	MEAN

LOCATION - LAT 49 47 00 N DRAINAGE AREA, 298 km²
LONG 100 57 52 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.410 AND 0 M3/S OCCURRED IN FEBRUARY

GOPHER CREEK NEAR VIRDEN - STATION NO. 05MG003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	0.467 ON MAR 27	0B ON MAR 01 *	475	1959
1960	---	5.44 B ON APR 04	0B ON MAR 01	3 910	1960
1961	---	0.634 ON APR 04	0 ON MAR 01	345	1961
1962	---	4.05 ON APR 07	0 ON MAR 01	2 100	1962
1963	---	4.87 B ON MAR 23	0B ON MAR 01	5 320	1963
1964	---	3.74 ON APR 10	0B ON MAR 01	5 990	1964
1965	---	7.82 ON APR 14	0B ON MAR 01	9 310	1965
1966	---	2.12 B ON MAR 30	0B ON MAR 01	2 870	1966
1967	---	2.83 B ON APR 11	0B ON MAR 01	4 270	1967
1968	---	1.01 B ON MAR 26	0B ON MAR 01	1 440	1968
1969	---	17.3 B ON APR 14	0B ON MAR 01	12 900	1969
1970	---	8.55 B ON APR 10	0B ON MAR 01	12 800	1970
1971	---	4.73 ON JUN 09	0B ON MAR 01	5 050	1971
1972	---	4.81 B ON MAR 21	0B ON MAR 01	6 240	1972
1973	---	1.16 ON JUL 28	0B ON MAR 01	1 370	1973
1974	---	13.4 ON APR 18	0B ON MAR 01	11 900	1974
1975	---	7.48 B ON APR 17	0B ON MAR 01	11 500	1975
1976	---	46.2 B ON APR 10 *	0B ON MAR 01	31 200	1976
1977	---	0.521 ON MAY 09	0B ON MAR 01	478	1977
1978	---	0.912B ON APR 11	0B ON MAR 01	998	1978
1979	---	10.8 ON APR 23	0B ON MAR 01	7 290	1979
1980	---	0.424B ON APR 08	0B ON MAR 01	246	1980
1981	---	0.283B ON MAR 01	0 ON MAR 30	200	1981
1982	6.27 AT 10:55 CST ON APR 14 *	5.73 ON APR 14	0B ON MAR 01	2 370	1982
1983	5.80B AT 12:04 CST ON APR 11	4.90 ON APR 22	0B ON MAR 01	4 600	1983
1984	---	0.002E ON MAR 25	0B ON MAR 01	0.605	1984
1985	---	3.63 B ON MAR 22	0B ON MAR 01	2 460	1985
1986	2.21B AT 06:32 CST ON MAR 26	1.67 B ON MAR 19	0B ON MAR 01	2 960	1986
1987	5.72B AT 09:17 CST ON APR 04	4.80 B ON APR 04	0B ON MAR 01	3 700	1987
1988	0 B AT 00:01 CST ON MAR 01	0 B ON MAR 01	0B ON MAR 01	0	1988
1989	---	0.249B ON APR 04	0B ON MAR 01	86.6	1989
1990	2.90 AT 01:06 CST ON JUL 04	1.90 ON JUL 04	0B ON MAR 01	1 140	1990
				4 860	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GRAHAM CREEK NEAR MELITA - STATION NO. 05NF008

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1936	---	---	---	---	0.014	0	---	---	---	---	---	---	---	1936
1943	---	---	0	1.45	0.061	0.175	0.024	0	0	0	---	---	0.210	1943
1944	---	---	0	0	0	0.101	0.127	0.006	0.004	0.004	---	---	0.030	1944
1945	---	---	0.015	0.076	0.027	0.020	0.009	0	0	0	---	---	0.018	1945
1946	---	---	0.647	0.251	0.013	0	0.002	0	0	0	---	---	0.114	1946
1947	---	---	0	0.199	0.006	0.150	0.123	0	0	0	---	---	0.059	1947
1948	---	---	0	1.11	0.676	0.004	0	0	0	0	---	---	0.222	1948
1949	---	---	0	1.16	0.054	0.246	0.002	0	0	0	---	---	0.179	1949
1950	---	---	0	0.663	0.635	0.162	0.131	0.360	0.146	0.060	---	---	0.269	1950
1951	---	---	0	2.17	1.58	0.082	0	0	0	0	---	---	0.475	1951
1952	---	---	0.033	0.267	0	0	0.008	0	0	0	---	---	0.038	1952
1953	---	---	0.016	0.035	0	0.007	0	0	0	0	---	---	0.007	1953
1954	---	---	0	0	0	0.227	0.198	0.028	0	0	---	---	0.056	1954
1955	---	---	0	1.71	0.416	0.095	0.020	0	0	0	---	---	0.277	1955
1956	---	---	0	1.89	0.190	0.056	0.015	0	0	0	---	---	0.264	1956
1957	---	---	0.076	0.078	0.043	0.068	0.009	0.141	0.181	0.023	---	---	0.077	1957
1958	---	---	0.355	0.209	0.010	0	0	0	0	0	---	---	0.072	1958
1959	---	---	0.071	0.005	0	0	0	0	0	0	---	---	0.010	1959
1960	---	---	0.108	0.507	0.019	0.009	0	0	0	0	---	---	0.079	1960
1961	---	---	0	0	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0	0	0	0	0	0	0	---	---	0	1962
1963	---	---	0.125	0.017	0.002	0.545	0.019	0.003	0.007	0.001	---	---	0.089	1963
1964	---	---	0.433	0.791	0.500	0.101	0.016	0	0	0	---	---	0.229	1964
1965	---	---	0	0.214	0.084	0.095	0.003	0	0	0.007	---	---	0.050	1965
1966	---	---	0.191	0.205	0.166	0.048	0.001	0	0	0	---	---	0.076	1966
1967	---	---	0	0.051	0.077	0.001	0	0	0	0	---	---	0.016	1967
1968	---	---	0.081	0.004	0	0	0	0	0	0	---	---	0.011	1968
1969	---	---	0	3.29	0.571	0.083	0.142	0.023	0	0	---	---	0.506	1969
1970	---	---	0	0.923	2.05	0.156	0.016	0.006	0	0	---	---	0.395	1970
1971	---	---	0	0.065	0.005	0.169	0.031	0	0	0.003	---	---	0.034	1971
1972	---	---	0.709	0.509	0.111	0.097	0.022	0.010	0.005	0.003	---	---	0.183	1972
1973	---	---	0.007	0.025	0.076	0.019	0.001	0	0	0.006	---	---	0.017	1973
1974	---	---	0	3.49	0.549	0.164	0.007	0.003	0	0	---	---	0.518	1974
1975	---	---	0	1.67	1.76	0.121	0.039	0.008	0.027	0.273	---	---	0.486	1975
1976	---	---	0	14.4	1.20	0.117	0.003	0.001	0	0	---	---	1.93	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.007	0	0	0	0	0	0	---	---	0.001	1978
1979	---	---	0	0.497	0.043	0.006	0	0	0	0	---	---	0.067	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	0.001	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.241	0	0	0.002	0	0	0	---	---	0.030	1982
1983	---	---	0.044	0.801	0.061	0.003	0	0	0	0	---	---	0.112	1983
1984	---	---	0.001	0	0.008	0	0	0	0	0	---	---	0.001	1984
1985	---	---	0.240	0.032	0.006	0	0	0	0	0	---	---	0.035	1985
1986	---	---	0.015	0.024	0.160	0	0.027	0.014	0	0	---	---	0.030	1986
1987	---	---	0.554	0.320	0.006	0	0	0	0	0	---	---	0.110	1987
1988	---	---	0.001	0	0	0	0	0	0	0	---	---	0	1988
1989	---	---	0	0.433	0	0	0	0	0	0	---	---	0.053	1989
1990	---	---	0	0	0	0	0	0	0	0	---	---	0	1990
MEAN	---	0.001	0.078	0.829	0.228	0.064	0.021	0.013	0.008	0.008	---	---	0.155	MEAN

LOCATION - LAT 49 15 50 N DRAINAGE AREA, 730 km²
LONG 100 59 45 W NATURAL FLOW

REMARKS - DATA PRIOR TO 1957 WERE PUBLISHED UNDER STATION NO. 05NF004 "GRAHAM CREEK NEAR MELITA"

GRAHAM CREEK NEAR MELITA - STATION NO. 05NF008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1936	---	---	0 ON MAY 24 *	---	1936
1943	---	10.1 ON APR 04	0B ON MAR 01	4 450	1943
1944	---	0.694 ON JUN 29	0B ON MAR 01	637	1944
1945	---	0.501B ON APR 13	0B ON MAR 01	385	1945
1946	---	6.80 ON MAR 27	0B ON MAR 01	2 420	1946
1947	---	0.864B ON APR 12	0B ON MAR 01	1 250	1947
1948	---	5.15 ON APR 22	0B ON MAR 01	4 700	1948
1949	---	11.2 ON APR 11	0B ON MAR 01	3 800	1949
1950	---	1.38 ON MAY 16	0B ON MAR 01	5 690	1950
1951	---	7.02 ON MAY 05	0B ON MAR 01	10 100	1951
1952	---	1.10 B ON APR 02	0B ON MAR 01	802	1952
1953	---	0.510 ON MAR 31	0E ON MAR 01	152	1953
1954	---	0.227E ON JUN 01	0E ON MAR 01	1 190	1954
1955	---	7.02 B ON APR 05	0B ON MAR 01	5 850	1955
1956	---	4.53 ON APR 14	0B ON MAR 01	5 580	1956
1957	---	1.27 ON AUG 01	0 ON MAR 01	1 630	1957
1958	---	2.27 B ON MAR 29	0B ON MAR 01	1 520	1958
1959	---	0.566B ON MAR 27	0B ON MAR 01	202	1959
1960	---	1.81 B ON APR 04	0B ON MAR 01	1 680	1960
1961	---	0 ON MAR 01	0 ON MAR 01	0	1961
1962	---	0 ON MAR 01	0 ON MAR 01	0	1962
1963	---	1.50 ON JUN 02	0B ON MAR 01	1 870	1963
1964	---	2.12 B ON APR 03	0B ON MAR 01	4 850	1964
1965	---	0.654B ON APR 18	0 ON MAR 01	1 060	1965
1966	---	0.739B ON MAR 15	0B ON MAR 01	1 620	1966
1967	---	0.289B ON APR 11	0B ON MAR 01	342	1967
1968	---	0.391B ON MAR 26	0B ON MAR 01	229	1968
1969	---	11.8 ON APR 17	0B ON MAR 01	10 700	1969
1970	---	5.66 E ON MAY 03	0B ON MAR 01	8 350	1970
1971	---	0.841 ON JUN 12	0B ON MAR 01	710	1971
1972	---	2.18 B ON MAR 24	0B ON MAR 01	3 870	1972
1973	---	0.122 ON MAY 02	0B ON MAR 01	359	1973
1974	---	14.8 B ON APR 18	0B ON MAR 01	11 000	1974
1975	---	6.68 ON MAY 03	0B ON MAR 01	10 300	1975
1976	---	36.5 ON APR 12 *	0B ON MAR 01	40 900	1976
1977	---	0.001B ON MAR 08	0B ON MAR 01	0.518	1977
1978	---	0.040B ON APR 16	0B ON MAR 01	18.0	1978
1979	---	3.20 B ON APR 19	0B ON MAR 01	1 420	1979
1980	---	0 B ON MAR 01	0B ON MAR 01	0	1980
1981	---	0 B ON MAR 01	0B ON MAR 01	0	1981
1982	1.46 AT 02:10 CST ON APR 16	1.26 ON APR 15	0B ON MAR 01	631	1982
1983	2.03 AT 04:40 CST ON APR 07	1.51 B ON APR 05	0B ON MAR 01	2 360	1983
1984	0.294 AT 06:13 CST ON MAY 07	0.066 ON MAY 07	0B ON MAR 01	24.6	1984
1985	1.53 AT 07:49 CST ON MAR 20	1.32 B ON MAR 20	0B ON MAR 01	743	1985
1986	0.898 AT 04:22 CST ON MAY 06	0.732 ON MAY 06	0B ON MAR 01	642	1986
1987	4.11 B AT 08:55 CST ON MAR 22 *	3.70 B ON MAR 22	0B ON MAR 01	2 330	1987
1988	0.023B AT 00:25 CST ON MAR 25	0.008B ON MAR 25	0B ON MAR 01	4.32	1988
1989	3.54 AT 06:56 CST ON APR 05	2.73 ON APR 05	0B ON MAR 01	1 120	1989
1990	---	0 ON MAR 01	0 ON MAR 01	0	1990
				3 280	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GRASS RIVER ABOVE STANDING STONE FALLS - STATION NO. 05TD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	---	---	---	---	---	---	119	98.3	78.6	61.7	---	1959
1960	48.2	43.1	33.1	30.6	48.7	123	110	91.5	66.3	48.0	39.0	29.9	59.3	1960
1961	23.8	20.7	17.9	15.6	34.2	43.0	35.8	29.6	22.4	18.3	19.0	16.5	24.7	1961
1962	15.2	14.2	13.3	12.9	41.4	105	112	77.5	56.2	44.8	40.5	38.2	47.7	1962
1963	35.8	31.8	28.7	30.9	70.6	130	125	89.7	64.3	51.3	48.0	42.8	62.6	1963
1964	36.2	28.5	23.3	39.2	68.8	80.2	63.8	53.1	59.9	87.5	104	99.4	62.0	1964
1965	82.9	66.4	54.3	43.3	103	194	207	161	138	114	99.5	84.1	113	1965
1966	68.7	58.3	48.9	41.5	70.6	184	237	228	187	138	99.4	75.9	120	1966
1967	59.9	50.7	44.1	38.9	54.9	121	130	111	80.8	60.4	50.4	43.9	70.6	1967
1968	37.1	33.7	29.2	27.5	69.2	140	142	117	95.1	90.7	97.3	94.4	81.3	1968
1969	79.7	66.6	51.8	47.3	67.0	96.4	95.9	70.4	86.7	116	127	109	84.5	1969
1970	84.9	64.3	49.8	39.4	52.2	103	154	138	107	87.5	91.1	88.2	88.5	1970
1971	76.1	62.7	48.8	42.9	80.3	102	114	101	86.3	73.0	90.3	99.6	81.5	1971
1972	92.3	73.6	56.1	41.5	87.8	133	145	129	107	97.7	86.2	73.0	93.6	1972
1973	58.8	47.1	39.1	35.6	47.0	65.8	82.1	84.4	79.3	68.1	61.4	53.5	60.3	1973
1974	45.0	38.3	32.8	31.5	57.5	119	128	107	78.9	57.6	46.0	38.6	65.2	1974
1975	33.9	29.1	26.3	25.3	36.7	80.9	118	118	91.8	83.3	77.0	63.7	65.6	1975
1976	50.0	39.6	32.3	29.9	32.4	37.5	59.9	79.8	77.4	61.9	53.3	46.0	50.0	1976
1977	39.1	32.9	29.0	34.9	53.7	81.2	105	89.5	82.2	84.4	84.2	82.5	66.8	1977
1978	69.2	55.0	42.2	36.3	52.4	68.8	80.5	86.5	76.2	90.3	96.6	92.5	70.7	1978
1979	77.6	68.6	49.0	37.7	50.5	134	168	141	103	77.9	61.5	48.4	84.9	1979
1980	41.0	35.1	30.3	29.3	35.5	31.7	33.5	32.8	61.4	93.7	99.8	89.9	51.2	1980
1981	77.4	54.1	42.0	34.4	55.0	74.1	75.1	76.8	55.6	49.6	52.5	53.3	58.0	1981
1982	56.9	50.4	41.5	34.6	77.7	115	112	94.6	74.1	58.8	49.7	46.3	67.6	1982
1983	41.7	36.0	31.4	27.9	42.5	122	133	122	109	117	110	102	83.4	1983
1984	88.8	71.5	54.0	51.4	95.1	138	137	115	93.5	85.1	83.5	86.3	91.7	1984
1985	87.4	73.1	---	---	---	---	180	153	115	---	---	---	---	1985
1986	50.3	42.4	34.1	31.6	67.0	109	140	159	144	116	91.1	72.6	88.3	1986
1987	58.0	46.4	38.4	39.9	66.9	87.4	94.3	80.5	68.0	56.2	46.1	38.4	60.1	1987
1988	32.9	28.9	25.9	25.5	68.0	109	106	79.1	54.1	37.9	30.5	26.7	52.2	1988
1989	23.7	21.4	18.8	16.8	23.5	---	---	---	---	---	---	---	---	1989
1990	---	---	---	---	---	46.2	56.4	44.9	32.0	25.8	23.7	---	---	1990
MEAN	55.5	46.2	36.8	33.6	59.0	103	116	102	86.2	76.3	71.2	65.5	71.6	MEAN

LOCATION - LAT 55 44 35 N DRAINAGE AREA, 15 400 km²
LONG 097 00 00 W NATURAL FLOW

GRASS RIVER ABOVE STANDING STONE FALLS - STATION NO. 05TD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	---	---	---	1959
1960	---	136 E ON JUN 26	25.3 ON DEC 31	1 870 000	1960
1961	---	48.4 ON MAY 30	15.0E ON APR 21	701 000	1961
1962	132 AT 16:20 CST ON JUN 28	122 ON JUN 28	14.7E ON APR 21 *	1 510 000	1962
1963	147 AT 13:30 CST ON JUN 23	140 ON JUN 26	26.3 ON MAR 21	1 970 000	1963
1964	---	106 ON NOV 17	20.8A ON MAR 19	1 960 000	1964
1965	---	215 E ON JUL 01	38.5 ON APR 26	3 550 000	1965
1966	---	246 ON JUL 21 *	39.6 ON APR 26	3 790 000	1966
1967	---	134 ON JUN 26	35.1E ON MAY 02	2 230 000	1967
1968	---	150 E ON JUL 09	26.3A ON APR 25	2 570 000	1968
1969	---	129 ON NOV 03	41.3 ON APR 11	2 670 000	1969
1970	---	162 E ON JUL 12	36.2 ON APR 17	2 790 000	1970
1971	125 AT 16:13 CST ON JUL 14	124 ON JUL 13	40.2 ON APR 19	2 570 000	1971
1972	152 AT 11:46 CST ON JUL 18	151 ON JUL 18	37.4 ON APR 24	2 960 000	1972
1973	98.0 AT 13:00 CST ON AUG 26	90.0 ON AUG 29	34.5A ON APR 19	1 900 000	1973
1974	140 AT 17:00 CST ON JUL 12	135 ON JUN 29	29.4 ON APR 24	2 060 000	1974
1975	132 AT 13:15 CST ON JUL 26	129 ON JUL 26	25.0 ON APR 13	2 070 000	1975
1976	88.9 AT 12:30 CST ON AUG 18	84.4 ON SEP 08	28.6 ON APR 05	1 580 000	1976
1977	117 AT 10:15 CST ON JUL 13	112 ON JUL 13	28.0 ON MAR 31	2 110 000	1977
1978	106 AT 12:45 CST ON NOV 03	99.1 ON NOV 01	32.1 ON APR 22	2 230 000	1978
1979	178 AT 15:00 CST ON JUL 16 *	173 ON JUL 16	36.1 ON APR 18	2 680 000	1979
1980	103 AT 18:15 CST ON OCT 30	103 ON OCT 30	26.9 ON APR 13	1 620 000	1980
1981	90.0 AT 12:30 CST ON JUL 09	84.5 ON JUL 09	32.1 ON APR 26	1 930 000	1981
1982	125 AT 11:50 CST ON JUN 26	122 ON JUN 25	35.8 ON APR 23	2 130 000	1982
1983	142 AT 12:35 CST ON JUL 27	137 ON JUL 19	27.1 ON APR 19	2 620 000	1983
1984	152 AT 12:43 CST ON JUN 30	148 ON JUN 29	45.0 ON APR 06	2 900 000	1984
1985	---	---	---	---	1985
1986	166 AT 18:25 CST ON AUG 24	163 ON AUG 16	30.6 ON APR 03	2 780 000	1986
1987	102 AT 14:20 CST ON JUL 03	98.4 ON JUL 15	33.3E ON APR 12	1 900 000	1987
1988	---	118 A ON JUN 19	25.1A ON MAR 24	1 650 000	1988
1989	31.9 AT 13:00 CST ON MAY 29	28.5 ON MAY 29	---	---	1989
1990	66.2 AT 13:00 CST ON JUL 12	62.6 ON JUL 12	---	---	1990
				2 260 000	MEAN

A - MANUAL GAUGE E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD
(SEE REFERENCE INDEX)

GRASS RIVER AT WEKUSKO FALLS - STATION NO. 05TB002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	11.2	8.22	6.22	5.64	4.93	4.91	---	1957
1958	5.18	5.28	5.90	8.32	13.3	13.8	10.3	7.47	6.60	7.05	6.94	6.80	8.09	1958
1959	7.24	6.86	6.57	6.59	14.8	23.8	22.9	15.0	12.9	12.3	11.4	11.5	12.7	1959
1960	10.8	10.0	9.29	9.68	12.7	23.2	18.0	12.1	8.21	5.26	4.68	4.12	10.7	1960
1961	4.87	4.72	4.83	5.06	5.97	5.32	5.39	3.97	2.14	1.65	1.71	2.11	3.98	1961
1962	2.16	2.68	3.20	3.35	8.19	16.0	11.6	9.67	7.92	6.31	6.12	5.16	6.88	1962
1963	5.08	5.04	4.92	6.49	10.8	18.5	17.3	11.9	9.81	8.50	8.41	7.90	9.57	1963
1964	8.27	7.47	6.78	6.37	8.57	7.88	7.02	8.51	13.4	19.2	20.9	18.1	11.0	1964
1965	16.3	14.1	12.9	11.0	19.6	33.7	27.9	19.2	15.4	13.8	12.6	12.4	17.4	1965
1966	11.7	10.6	9.56	8.78	12.3	29.2	45.3	42.7	31.1	23.5	19.2	17.5	21.9	1966
1967	15.1	13.1	11.2	10.8	15.5	18.3	19.0	18.1	12.5	9.78	9.32	9.29	13.3	1967
1968	8.74	8.86	8.45	8.44	12.7	17.8	18.3	13.4	13.3	12.7	13.0	13.0	12.4	1968
1969	11.6	11.0	10.1	11.2	14.3	12.8	10.1	9.08	8.65	12.9	14.3	14.2	11.7	1969
1970	12.3	10.8	9.92	9.37	13.2	17.0	29.0	25.1	19.4	15.1	17.1	15.8	16.2	1970
1971	14.2	12.5	11.0	10.8	15.7	15.9	14.5	11.2	8.76	8.81	10.7	12.4	12.2	1971
1972	11.9	11.3	10.3	9.58	16.5	20.9	26.6	23.3	17.6	17.3	16.5	14.6	16.4	1972
1973	13.9	12.0	11.1	10.1	16.5	24.6	22.7	18.0	13.4	9.80	8.80	8.67	14.1	1973
1974	8.36	8.33	8.13	8.87	15.1	19.5	16.1	10.7	8.35	6.91	6.37	6.11	10.2	1974
1975	6.44	6.47	6.31	6.47	9.17	17.3	20.2	16.2	11.6	10.0	8.81	7.82	10.6	1975
1976	7.68	7.50	6.93	6.85	6.77	8.31	12.2	12.6	11.4	10.0	9.24	8.86	9.04	1976
1977	8.42	8.02	7.55	7.89	9.04	9.80	11.9	15.0	16.6	14.9	16.2	14.7	11.7	1977
1978	13.2	11.3	9.92	9.74	11.5	12.1	12.3	10.9	10.2	12.5	13.9	12.9	11.7	1978
1979	12.1	10.9	10.0	9.70	16.4	28.3	23.6	15.5	11.2	9.71	9.11	8.73	13.8	1979
1980	8.24	8.26	7.59	7.25	7.18	6.59	5.50	4.48	5.80	8.43	9.57	9.39	7.35	1980
1981	9.32	8.57	8.12	7.52	8.35	9.25	9.45	6.45	4.93	5.23	6.82	7.07	7.59	1981
1982	7.03	6.79	6.67	7.05	10.6	13.5	11.8	9.32	7.32	6.22	5.39	5.54	8.11	1982
1983	5.69	5.62	5.61	5.63	8.60	12.0	16.6	22.2	23.0	21.5	20.1	17.0	13.7	1983
1984	14.9	13.7	11.3	14.7	23.8	28.2	25.3	18.0	14.0	17.0	21.2	21.3	18.6	1984
1985	18.5	15.7	13.7	12.4	23.3	31.6	28.3	23.6	22.2	19.5	16.6	14.3	20.0	1985
1986	13.0	11.5	10.8	10.6	15.3	20.7	21.2	21.5	15.0	12.8	11.1	10.5	14.5	1986
1987	9.57	9.54	9.07	10.3	12.9	14.7	13.7	10.8	8.60	6.50	5.45	4.69	9.65	1987
1988	4.71	5.12	5.59	6.33	10.2	9.16	7.49	5.46	4.32	3.13	2.48	2.21	5.52	1988
1989	2.02	1.92	1.84	1.85	2.00	1.83	1.87	1.20	1.95	2.35	3.20	3.70	2.15	1989
1990	4.10	4.35	4.41	4.64	7.53	8.65	7.43	4.63	2.79	2.09	2.40	2.38	4.62	1990
MEAN	9.47	8.78	8.17	8.29	12.3	16.7	16.5	13.7	11.4	10.5	10.4	9.87	11.4	MEAN

LOCATION - LAT 54 47 20 N LONG 099 58 10 W DRAINAGE AREA, 3 250 km² NATURAL FLOW

GRASS RIVER AT WEKUSKO FALLS - STATION NO. 05TB002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	16.3 ON JUN 13	4.73 ON JAN 11	255 000	1958
1959	---	27.7 ON JUL 06	6.37 ON MAR 04	400 000	1959
1960	---	25.6 E ON JUN 12	3.82 ON DEC 22	338 000	1960
1961	---	8.64 ON MAY 21	1.30 ON OCT 11	125 000	1961
1962	---	21.8 ON JUN 16	1.93 ON JAN 03	217 000	1962
1963	---	20.3 ON JUN 30	4.13 ON APR 21	302 000	1963
1964	---	21.4 ON OCT 24	5.72 ON APR 25	349 000	1964
1965	---	34.8 E ON JUN 11	10.6 ON APR 22	549 000	1965
1966	---	50.1 ON JUL 08 *	8.35 ON APR 15	690 000	1966
1967	---	19.9 ON JUL 07	8.78 ON DEC 27	418 000	1967
1968	---	20.8 ON JUL 18	7.99 A ON APR 03	392 000	1968
1969	---	15.0 E ON MAY 20	8.10 ON SEP 03	369 000	1969
1970	33.7 AT 18:00 CST ON JUL 07	32.8 ON JUL 07	9.12 ON APR 21	511 000	1970
1971	18.7 AT 13:00 CST ON JUN 01	17.4 ON JUN 02	7.84 ON SEP 25	384 000	1971
1972	30.6 AT 17:00 CST ON JUL 10	28.6 ON JUL 09	9.00 ON APR 22	519 000	1972
1973	28.3 AT 18:46 CST ON JUN 23	27.8 ON JUN 24	8.52 ON DEC 04	446 000	1973
1974	20.9 AT 16:05 CST ON JUN 05	20.6 ON JUN 14	5.92 ON DEC 12	323 000	1974
1975	24.1 AT 15:30 CST ON JUN 29	22.5 ON JUL 04	5.97 ON APR 02	334 000	1975
1976	14.9 AT 17:16 CST ON AUG 02	14.4 ON AUG 02	6.34 ON MAY 31	286 000	1976
1977	18.2 AT 13:01 CST ON NOV 12	17.3 ON SEP 14	7.05 ON APR 06	368 000	1977
1978	15.6 AT 13:31 CST ON NOV 07	15.0 ON NOV 07	9.37 ON MAR 31	369 000	1978
1979	31.8 AT 17:06 CST ON JUN 08	29.7 ON JUN 08	8.44 ON DEC 17	434 000	1979
1980	10.1 AT 05:51 CST ON OCT 30	9.90 ON NOV 18	4.09 ON AUG 20	233 000	1980
1981	12.4 AT 14:04 CST ON JUL 08	11.6 ON JUN 30	4.17 ON OCT 07	239 000	1981
1982	14.3 AT 12:26 CST ON JUN 24	14.0 ON JUN 24	5.03 ON NOV 17	256 000	1982
1983	26.0 AT 15:48 CST ON SEP 23	25.0 ON SEP 23	5.27 ON APR 11	431 000	1983
1984	32.8 AT 14:22 CST ON JUN 10	31.0 ON JUN 10	10.5 ON MAR 16	590 000	1984
1985	35.4 AT 13:18 CST ON JUN 19 *	34.7 A ON JUN 30	11.1 ON APR 16	631 000	1985
1986	24.8 AT 17:02 CST ON AUG 02	24.4 ON AUG 02	9.65 ON APR 10	458 000	1986
1987	16.3 AT 12:05 CST ON JUN 24	15.2 ON JUN 23	4.59 E ON DEC 31	304 000	1987
1988	11.8 AT 16:49 CST ON MAY 17	11.2 ON MAY 08	1.98 ON DEC 11	175 000	1988
1989	4.09 AT 19:34 CST ON DEC 04	4.00 ON DEC 04	0.917 ON AUG 22 *	67 700	1989
1990	10.2 AT 05:32 CST ON JUN 12	9.59 ON JUN 15	1.62 ON OCT 02	146 000	1990
				361 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GRASSMERE CREEK DRAIN NEAR MIDDLECHURCH - STATION NO. 05OJ017

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	1.01	2.21	0.185	---	---	---	---	---	---	1963
1964	---	---	0	1.22	0.082	0.118	---	---	---	0.038	---	---	---	1964
1965	---	---	0	6.05	0.607	0.125	0.064	0.037	0.034	0.023	---	---	0.853	1965
1966	---	---	0.005	4.20	0.876	0.132	0.216	0.065	0.019	0.009	---	---	0.681	1966
1967	---	---	0.027	3.58	0.582	0.064	0.066	0.001	0.001	0	---	---	0.532	1967
1968	---	---	0.454	0.553	0.161	0.098	0.613	1.64	0.693	0.449	---	---	0.585	1968
1969	---	---	0	5.73	0.546	0.673	1.82	0.895	0.306	0.155	---	---	1.25	1969
1970	---	---	0	9.36	1.32	0.495	0.660	0.170	0.213	0.113	---	---	1.52	1970
1971	---	---	0	6.40	0.253	0.107	0.162	0.095	0.015	0.013	---	---	0.865	1971
1972	---	---	0.111	5.88	0.046	0.019	0.014	0.026	0.013	0.015	---	---	0.751	1972
1973	---	---	1.52	0.018	0.006	0.052	0.011	0.006	0.013	0.028	---	---	0.209	1973
1974	---	---	0	13.9	4.98	0.405	0.111	0.061	0.045	0.061	---	---	2.42	1974
1975	---	---	0	1.44	0.087	0.025	0.003	0.002	0	0.011	---	---	0.192	1975
1976	---	---	0	4.47	0.010	0.096	0.011	0.001	0	0	---	---	0.562	1976
1977	---	---	0.012	0.290	0.073	0.087	0.017	0.001	0.266	0.076	---	---	0.101	1977
1978	---	---	0	6.45	0.252	0.081	0.033	0.008	0.033	0.015	---	---	0.843	1978
1979	---	---	0	14.5	2.39	0.167	0.026	0.013	0.003	0.003	---	---	2.10	1979
1980	---	---	0	1.14	0.019	0.007	0	0	0	0.007	---	---	0.144	1980
1981	---	---	0.496	0.037	0.021	0.045	0.014	0.035	0.006	0.031	---	---	0.086	1981
1982	---	---	0.438	2.51	0.044	0.059	0.031	0.009	0.016	0.049	---	---	0.389	1982
1983	---	---	0.531	5.92	0.030	0.665	0.110	0.023	0.008	0.004	---	---	0.896	1983
1984	---	---	0.252	0.272	0.038	0.021	0	0	0	0.022	---	---	0.075	1984
1985	---	---	1.76	0.988	0.031	0.028	0.003	0.989	0.008	0.006	---	---	0.479	1985
1986	---	---	2.53	3.81	1.82	0.059	1.04	0.116	0.059	0.050	---	---	1.18	1986
1987	---	---	0	4.72	0.057	0.041	0.015	1.11	0.022	0.025	---	---	0.719	1987
1988	---	---	0.025	0.571	0.051	0.062	0.003	0	0	0	---	---	0.088	1988
1989	---	---	0	1.30	0.002	0.040	0.004	0.001	0	0	---	---	0.164	1989
1990	---	---	0.195	1.26	0.034	0.591	0.022	0	0	0.001	---	---	0.258	1990
MEAN	---	---	0.309	3.95	0.551	0.235	0.195	0.204	0.068	0.045	---	---	0.691	MEAN

LOCATION - LAT 50 00 08 N DRAINAGE AREA, 471 km²
LONG 097 07 01 W NATURAL FLOW

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "GRASSMERE DRAIN NEAR MIDDLECHURCH"

GRASSMERE CREEK DRAIN NEAR MIDDLECHURCH - STATION NO. 05OJ017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	---	---	1963
1964	---	3.94B ON APR 15	0B ON MAR 01 *	---	1964
1965	---	21.9 ON APR 15	0B ON MAR 01	18 100	1965
1966	---	16.1 B ON APR 12	0B ON MAR 01	14 400	1966
1967	---	11.4 B ON APR 21	0B ON MAR 01	11 300	1967
1968	---	19.1 ON AUG 25	0B ON MAR 01	12 400	1968
1969	---	24.7 B ON APR 10	0B ON MAR 01	26 500	1969
1970	---	26.9 B ON APR 25	0B ON MAR 01	32 100	1970
1971	22.4 AT 21:29 CST ON APR 19	21.8 ON APR 11	0B ON MAR 01	18 300	1971
1972	28.9 B AT 15:10 CST ON APR 15	27.3 B ON APR 15	0B ON MAR 01	15 900	1972
1973	6.68B AT 15:16 CST ON MAR 23	5.72B ON MAR 23	0B ON MAR 01	4 430	1973
1974	51.3 AT 17:22 CST ON APR 21 *	50.1 ON APR 21	0B ON MAR 01	51 200	1974
1975	4.08 AT 06:05 CST ON APR 23	3.65 ON APR 23	0B ON MAR 01	4 060	1975
1976	---	24.1 B ON APR 07	0B ON MAR 01	11 900	1976
1977	2.49 AT 07:00 CST ON APR 10	2.21 ON APR 10	0B ON MAR 01	2 140	1977
1978	---	17.9 B ON APR 12	0B ON MAR 01	17 800	1978
1979	---	50.7 ON APR 21 *	0B ON MAR 01	44 500	1979
1980	6.25 AT 22:10 CST ON APR 11	4.72B ON APR 12	0B ON MAR 01	3 050	1980
1981	---	1.36B ON MAR 24	0B ON MAR 01	1 830	1981
1982	---	14.6 B ON APR 13	0B ON MAR 01	8 240	1982
1983	26.4 AT 20:50 CST ON APR 04	23.7 B ON APR 05	0B ON MAR 01	19 000	1983
1984	4.56B AT 09:56 CST ON APR 03	3.21B ON MAR 26	0B ON MAR 01	1 590	1984
1985	16.3 AT 17:03 CST ON AUG 17	9.19B ON MAR 26	0B ON MAR 01	10 100	1985
1986	31.9 AT 05:03 CST ON APR 01	29.6 B ON MAR 31	0B ON MAR 01	25 100	1986
1987	49.9 B AT 19:13 CST ON APR 07	36.0 ON APR 08	0B ON MAR 01	15 600	1987
1988	---	4.72B ON APR 04	0B ON MAR 01	1 850	1988
1989	---	6.94B ON APR 15	0B ON MAR 01	3 480	1989
1990	7.90B AT 03:24 CST ON APR 01	6.92B ON APR 01	0B ON MAR 01	5 460	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		14 600	MEAN

GUNISAO RIVER ABOVE DIAMOND RAPIDS - STATION NO. 05UA003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	---	21.9	15.7	9.88	6.27	---	---	---	---	1971
1972	---	---	---	---	---	32.1	18.4	9.40	5.19	4.53	3.76	2.78	---	1972
1973	2.57	2.20	3.02	10.0	34.0	34.8	31.1	12.5	7.12	17.5	14.5	11.9	15.2	1973
1974	9.32	5.80	4.92	17.6	74.8	46.8	---	---	---	---	---	---	---	1974
1975	2.49	2.27	2.30	---	---	---	37.0	23.4	20.3	19.3	15.4	7.28	---	1975
1976	5.22	4.46	3.96	11.2	9.24	15.8	20.0	8.81	4.79	4.28	3.30	2.64	7.82	1976
1977	2.41	2.21	2.05	9.56	19.6	18.4	18.4	21.2	29.0	21.6	16.8	8.75	14.2	1977
1978	5.48	3.59	3.93	7.24	18.9	11.5	8.81	---	6.25	14.0	20.9	11.4	---	1978
1979	6.36	4.73	3.97	7.17	59.0	---	---	20.8	13.1	16.0	20.9	13.7	---	1979
1980	8.29	6.04	4.92	15.2	27.0	13.5	5.78	4.23	8.78	14.9	8.36	5.45	10.2	1980
1981	3.83	2.92	2.17	3.92	16.7	20.2	20.5	16.0	16.0	26.2	33.9	21.3	15.5	1981
1982	11.4	6.50	4.12	---	---	49.7	30.8	20.0	12.2	24.8	20.9	13.7	---	1982
1983	9.62	3.32	0.833	9.87	---	---	---	---	---	11.0	10.7	7.60	---	1983
1984	5.35	4.38	3.72	22.5	36.8	21.7	11.2	6.46	4.06	6.17	7.40	6.39	11.4	1984
1985	6.06	5.38	4.17	11.1	29.2	45.2	43.1	26.3	22.6	23.9	18.4	8.32	20.4	1985
1986	4.78	3.57	3.02	17.4	58.7	36.6	19.1	14.7	7.66	9.06	3.38	1.89	15.1	1986
1987	1.79	1.84	2.97	25.9	30.2	28.7	30.2	21.0	22.2	16.6	11.5	6.87	16.7	1987
1988	4.38	3.40	2.58	4.53	26.0	20.6	10.5	5.86	4.32	5.43	3.88	2.72	7.87	1988
1989	2.37	2.40	2.31	2.71	3.68	3.80	1.81	1.76	2.75	4.77	5.67	3.41	3.12	1989
1990	3.92	3.98	3.79	15.8	62.4	37.0	18.1	8.02	4.38	2.63	2.98	2.22	13.8	1990
MEAN	5.31	3.83	3.21	12.0	33.7	27.0	20.0	13.7	10.9	13.5	12.4	7.68	12.6	MEAN

LOCATION - LAT 53 47 10 N LONG 097 40 20 W DRAINAGE AREA, 4 500 km² NATURAL FLOW

REMARKS - DISCHARGE RECORDS PRIOR TO JUN 1972 WERE OBTAINED AT LAT. 53 48 30 LONG. 097 42 40, AT FIRST PITCH ABOVE DIAMOND RAPIDS

GUNISAO RIVER ABOVE DIAMOND RAPIDS - STATION NO. 05UA003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1971	---	---	---	---	1971
1972	---	---	---	---	1972
1973	---	44.2 ON JUL 08	2.15 B ON FEB 19	479 000	1973
1974	93.4 AT 19:10 CST ON APR 30	92.6 ON MAY 01 *	---	---	1974
1975	---	---	---	---	1975
1976	36.0 AT 14:00 CST ON JUN 29	35.7 ON JUN 29	2.51 B ON DEC 31	247 000	1976
1977	---	32.3 ON SEP 04	1.93 B ON APR 06	448 000	1977
1978	30.0 AT 14:00 CST ON APR 28	29.4 ON APR 28	2.92 B ON MAR 05	---	1978
1979	---	---	3.62 B ON APR 06	---	1979
1980	---	39.4 E ON APR 25	2.41 ON AUG 20	323 000	1980
1981	40.8 AT 12:30 CST ON NOV 06	39.7 ON NOV 06	1.79 B ON APR 04	490 000	1981
1982	---	---	3.53 B ON APR 04	---	1982
1983	111 AT 08:30 CST ON MAY 24 *	---	---	---	1983
1984	42.1 AT 17:50 CST ON MAY 06	42.1 ON MAY 07	3.43 B ON MAR 30	359 000	1984
1985	68.3 ON JUN 30	67.5 R ON JUN 30	2.95 RB ON APR 11	643 000	1985
1986	76.5 ON MAY 20	75.0 ON MAY 20	1.82 B ON DEC 29	475 000	1986
1987	43.5 AT 11:40 CST ON APR 28	42.8 ON APR 28	1.77 B ON JAN 11	527 000	1987
1988	31.8 AT 16:00 CST ON MAY 21	31.1 ON MAY 13	2.29 A ON DEC 27	249 000	1988
1989	7.84 AT 16:35 CST ON OCT 31	7.82 ON NOV 01	0.722 ON AUG 02 *	98 400	1989
1990	81.5 AT 11:35 CST ON MAY 09	78.4 ON MAY 09	1.64 ON DEC 30	437 000	1990
				398 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1989

HALES CREEK NEAR HARDING - STATION NO. 05MG011

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1975	0	0	0	2.82	0.140	0.043	0	0.020	0.405	0.015	0.007	0	0.284	1975
1976	0	0	0	3.80	0.028	0.186	0.003	0	0	0	0	0	0.329	1976
1977	0	0	0.017	0.015	0.006	0.001	0.015	0.003	0.002	0.001	0.004	0.001	0.005	1977
MEAN	0	0	0.006	2.21	0.058	0.077	0.006	0.008	0.136	0.005	0.004	0	0.206	MEAN

LOCATION - LAT 49 54 46 N LONG 100 30 26 W DRAINAGE AREA, 110 km² NATURAL FLOW

HALES CREEK NEAR HARDING - STATION NO. 05MG011

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1975	47.6 AT 17:55 CST ON APR 27 *	21.3 ON APR 28	0L ON JAN 01 *	8 960	1975
1976	---	23.3 B ON APR 09 *	0B ON JAN 01	10 400	1976
1977	0.292 AT 02:40 CST ON JUL 14	0.127 ON JUL 13	0B ON JAN 01	171	1977
				6 510	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

HAMIOTA CREEK NEAR HAMIOTA - STATION NO. 05MG005

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0	0.008	0	0	0.013	0	0	0	---	---	0.003	1961
1962	---	---	0	0.088	0	0	0	0	0	0	---	---	0.011	1962
1963	---	---	0.088	0.017	0	0.034	0.015	0	0	0	---	---	0.019	1963
1964	---	---	0	0.062	0.024	0	0.006	0	0	0	---	---	0.011	1964
1965	---	---	0	0.053	0.009	0.002	0	0	0	0	---	---	0.008	1965
1966	---	---	0.001	0.056	0.030	0.001	0	0	0	0	---	---	0.011	1966
1967	---	---	0	0.294	0.117	0.005	0	0	0	0	---	---	0.051	1967
1968	---	---	0.023	0.015	0	0	0	0	0	0	---	---	0.005	1968
1969	---	---	0	0.604	0.024	0	0	0	0	0	---	---	0.077	1969
1970	---	---	0	0.149	0.075	0.001	0	0	0	0	---	---	0.028	1970
1971	---	---	0	0.043	0	0.104	0.025	0	0	0	---	---	0.021	1971
1972	---	---	0.013	0.131	0.019	0	0	0	0	0	---	---	0.020	1972
1973	---	---	0.001	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	0.235	0.031	0	0	0	0	0	---	---	0.033	1974
1975	---	---	0	0.226	0.205	0	0	0	0	0	---	---	0.054	1975
1976	---	---	0	0.544	0.008	0	0	0	0	0	---	---	0.068	1976
MEAN	---	---	0.008	0.158	0.034	0.009	0.004	0	0	0	---	---	0.026	MEAN

LOCATION - LAT 50 10 50 N LONG 100 33 30 W DRAINAGE AREA, 48.2 km² NATURAL FLOW

HAMIOTA CREEK NEAR HAMIOTA - STATION NO. 05MG005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	0.402 ON JUL 20	0 ON MAR 01 *	54.5	1961
1962	---	1.19 ON APR 18	0 ON MAR 01	228	1962
1963	---	0.714 ON MAR 29	0B ON MAR 01	408	1963
1964	---	0.261 ON APR 15	0 ON MAR 01	241	1964
1965	---	0.490B ON APR 12	0B ON MAR 01	169	1965
1966	---	0.181 ON APR 22	0B ON MAR 01	238	1966
1967	---	1.27 B ON APR 17	0B ON MAR 01	1 090	1967
1968	---	0.193B ON MAR 27	0B ON MAR 01	99.1	1968
1969	---	1.57 ON APR 13 *	0B ON MAR 01	1 630	1969
1970	---	0.643B ON APR 12	0B ON MAR 01	589	1970
1971	---	0.556 ON JUN 09	0B ON MAR 01	447	1971
1972	---	0.368 ON APR 09	0B ON MAR 01	425	1972
1973	---	0.014B ON MAR 09	0B ON MAR 01	3.80	1973
1974	---	0.915 ON APR 20	0B ON MAR 01	692	1974
1975	---	0.824 ON APR 28	0B ON MAR 01	1 130	1975
1976	---	1.48 ON APR 17	0B ON MAR 01	1 430	1976
				555	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

HAYES RIVER AT OUTLET OF OXFORD LAKE - STATION NO. 04AA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	15.8	24.3	37.0	40.5	34.7	18.1	9.52	4.94	4.41	---	1957
1958	4.58	4.64	5.96	8.89	14.6	26.2	27.6	26.3	25.0	30.1	32.1	26.5	19.5	1958
1959	21.6	22.2	24.5	30.5	74.2	141	155	111	147	141	110	91.7	89.4	1959
1960	75.1	60.6	49.8	48.7	72.2	93.8	80.7	58.4	43.7	35.1	25.5	17.9	55.1	1960
1961	14.2	12.3	11.7	17.0	40.7	46.1	38.1	27.5	23.7	25.0	26.3	---	---	1961
1962	---	---	---	---	37.8	58.4	48.6	29.5	28.6	25.7	27.9	---	---	1962
1963	---	---	---	---	67.6	93.5	69.2	41.2	29.0	32.6	18.3	12.1	---	1963
1964	9.90	9.16	9.06	9.22	36.4	67.2	40.5	26.3	25.4	30.1	34.4	---	---	1964
1965	---	---	---	21.4	55.7	119	126	88.2	65.6	66.4	59.6	48.2	---	1965
1966	36.7	28.8	24.3	23.4	41.9	115	180	109	76.5	59.5	46.1	39.8	65.6	1966
1967	35.4	29.3	20.3	23.9	34.3	162	130	68.5	43.0	34.9	27.0	27.6	53.1	1967
1968	29.1	19.5	24.3	26.1	38.3	85.1	91.1	86.5	73.1	76.9	70.6	54.8	56.4	1968
1969	45.5	44.9	57.3	57.7	58.7	56.3	43.3	34.6	40.8	62.9	61.0	56.1	51.6	1969
1970	48.9	42.4	41.9	42.3	48.5	62.3	74.7	67.8	56.1	55.4	71.9	60.4	56.8	1970
1971	65.4	61.4	54.2	52.2	71.0	72.1	61.6	53.7	45.7	36.9	40.2	49.7	55.3	1971
1972	60.4	51.8	44.9	43.7	71.2	80.5	66.2	54.4	43.3	36.8	25.2	16.1	49.3	1972
1973	13.8	10.8	15.8	23.6	35.7	48.9	48.9	44.8	39.7	41.7	42.9	37.3	33.8	1973
MEAN	35.4	30.6	29.3	29.6	48.4	80.3	77.8	56.6	48.6	46.9	42.6	39.3	53.3	MEAN

LOCATION - LAT 54 57 40 N LONG 095 16 10 W DRAINAGE AREA, 8 420 km² NATURAL FLOW

HAYES RIVER AT OUTLET OF OXFORD LAKE - STATION NO. 04AA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	43.0 ON JUL 25	---	---	1957
1958	---	34.5 ON NOV 11	4.53B ON JAN 01 *	613 000	1958
1959	---	169 ON JUL 06	21.1 B ON JAN 17	2 820 000	1959
1960	---	98.8 ON JUN 13	15.7 B ON DEC 31	1 740 000	1960
1961	50.4 AT 00:30 EST ON JUN 15	47.6 ON JUN 07	11.4 B ON APR 11	---	1961
1962	68.8 AT 00:30 EST ON JUN 30	61.2 ON JUN 28	---	---	1962
1963	---	100 ON JUN 08	---	---	1963
1964	---	83.3 ON JUN 08	---	---	1964
1965	---	138 ON JUN 28	---	---	1965
1966	---	200 ON JUL 13 *	22.7 B ON APR 08	2 070 000	1966
1967	---	181 ON JUN 22	18.4 B ON MAR 13	1 680 000	1967
1968	---	104 ON JUL 31	13.3 ON FEB 18	1 780 000	1968
1969	---	69.9 ON OCT 18	24.1 ON SEP 04	1 630 000	1969
1970	78.4 AT 02:43 CST ON JUL 14	78.2 ON JUL 14	40.5 B ON FEB 11	1 790 000	1970
1971	83.8 AT 17:02 CST ON JUN 01 *	82.1 ON JUN 01	32.6 ON NOV 07	1 740 000	1971
1972	---	82.7E ON JUN 03	14.4 ON DEC 14	1 560 000	1972
1973	54.4 AT 18:35 CST ON JUN 22	53.0 ON JUL 10	9.40B ON FEB 21	1 070 000	1973
				1 680 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

HAYES RIVER BELOW GODS RIVER - STATION NO. 04AB001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	350	317	293	345	1 250	1 440	940	687	749	537	299	244	623	1974
1975	232	225	217	325	1 320	843	612	828	829	---	---	---	---	1975
1976	341	280	257	305	---	521	724	598	902	590	356	231	---	1976
1977	187	175	163	550	650	505	492	466	751	600	445	280	439	1977
1978	210	186	170	183	1 210	891	1 020	1 170	1 220	1 150	676	435	714	1978
1979	340	318	295	309	1 360	1 680	1 300	906	674	709	601	481	751	1979
1980	394	331	291	511	1 020	778	738	627	984	921	422	321	612	1980
1981	302	269	244	231	1 390	1 310	943	803	835	998	590	550	684	1981
1982	514	466	418	372	1 880	1 250	656	665	723	720	596	456	729	1982
1983	393	348	311	283	1 450	2 340	989	860	---	987	650	423	---	1983
1984	337	296	276	---	---	1 060	679	382	434	481	413	357	---	1984
1985	307	262	219	470	1 630	2 610	1 710	846	737	945	668	437	907	1985
1986	339	301	281	275	---	1 050	944	1 050	844	729	450	339	---	1986
1987	287	271	264	924	915	522	728	---	---	---	494	330	---	1987
1988	256	223	205	197	---	---	476	405	296	291	229	173	---	1988
1989	135	114	101	94.4	---	---	---	---	---	---	347	235	---	1989
1990	239	222	216	217	---	---	682	560	508	482	410	301	---	1990
MEAN	304	271	248	349	1 280	1 200	852	724	728	724	478	350	682	MEAN

LOCATION - LAT 56 25 55 N DRAINAGE AREA, 103 000 km^2
LONG 092 47 19 W NATURAL FLOW

HAYES RIVER BELOW GODS RIVER - STATION NO. 04AB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	1 870E ON JUN 10	235 B ON DEC 31	19 600 000	1974
1975	---	---	---	---	1975
1976	---	---	---	---	1976
1977	---	1 180B ON APR 25	197 B ON DEC 31	13 900 000	1977
1978	---	2 320E ON MAY 15	157 B ON MAR 31	22 500 000	1978
1979	---	2 520E ON MAY 27	165 B ON MAR 23	23 700 000	1979
1980	---	1 640B ON MAY 03	278 B ON APR 07	19 400 000	1980
1981	---	2 910B ON MAY 19	279 B ON APR 03	21 600 000	1981
1982	---	3 050B ON MAY 05	228 B ON APR 19	23 000 000	1982
1983	---	4 230B ON MAY 29 *	350 B ON APR 27	---	1983
1984	---	---	260 B ON MAY 15	---	1984
1985	3 900 AT 17:35 CST ON JUN 27 *	3 880 ON JUN 27	192 B ON APR 14	28 600 000	1985
1986	---	---	275 B ON APR 03	---	1986
1987	---	2 390B ON APR 22	264 B ON MAR 12	---	1987
1988	---	---	151 B ON DEC 31	---	1988
1989	---	---	93.5B ON APR 12 *	---	1989
1990	---	---	215 B ON MAR 25	---	1990
				21 500 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

HAYES RIVER BELOW TROUT FALLS - STATION NO. 04AA004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	28.1	21.1	23.4	37.4	62.7	96.7	80.5	65.6	53.0	47.5	40.0	24.3	48.5	1974
1975	15.9	16.6	18.4	24.1	48.0	54.6	46.4	38.1	33.6	34.4	31.6	19.6	31.9	1975
1976	15.7	14.3	13.2	21.8	26.3	21.8	19.3	19.5	23.0	19.8	15.0	17.3	18.5	1976
1977	11.2	10.7	12.0	24.4	43.4	44.2	41.4	37.4	38.5	43.3	40.0	25.2	31.1	1977
1978	20.3	17.6	16.5	20.9	46.9	47.3	41.8	---	---	47.4	47.2	32.7	---	1978
1979	28.5	22.8	18.3	15.4	50.7	158	128	79.4	51.5	44.5	47.2	36.1	57.1	1979
1980	30.7	26.0	24.3	32.1	42.2	38.4	29.3	26.3	36.6	50.1	45.1	30.1	34.3	1980
1981	25.0	23.3	22.6	22.6	46.5	64.2	72.2	53.7	37.6	39.6	50.9	40.9	41.7	1981
1982	31.6	28.4	26.0	28.7	71.6	78.5	57.8	50.9	63.8	57.0	50.6	40.2	49.5	1982
1983	33.7	29.9	26.1	23.0	67.4	150	120	82.9	66.5	62.7	56.5	39.9	63.3	1983
1984	28.1	25.1	22.9	---	---	67.1	59.2	42.5	32.3	25.0	18.1	18.6 *	---	1984
1985	17.6	16.8	16.2	---	---	---	117	---	---	49.3	47.5	40.9	---	1985
1986	30.0	26.0	24.2	34.2	103	138	107	85.4	69.4	54.9	41.3R	32.8 R	64.6 R	1986
1987	29.4	27.6	26.4	38.0	61.5	---	---	---	---	29.7	18.0	12.2	---	1987
1988	10.6	10.9	12.7	17.1	51.1	69.8	47.5	31.5	24.0	19.8	12.9	8.85	26.4	1988
1989	7.30	7.64	8.78	10.6	---	---	17.6	8.78	13.4	14.9	14.3	10.7	---	1989
1990	9.26	8.88	8.71	14.2	38.6	53.9	50.3	39.2	33.8	26.9	21.7	16.6	26.9	1990
MEAN	22.4	20.2	19.5	24.3	54.3	77.3	64.7	47.8	41.2	39.2	35.2R	26.4 R	41.1 R	MEAN

LOCATION - LAT 54 51 23 N
LONG 095 07 12 W
DRAINAGE AREA, 9 190 km²
NATURAL FLOW

R - REVISED SINCE JAN 01 1989

HAYES RIVER BELOW TROUT FALLS - STATION NO. 04AA004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	110 AT 14:30 CST ON JUN 30	104 ON JUN 29	19.5 B ON FEB 16	1 530 000	1974
1975	63.4 AT 01:00 CST ON JUN 14	56.4 ON JUN 11	14.9 B ON JAN 19	1 000 000	1975
1976	---	29.2 ON APR 23	11.6 B ON DEC 30	585 000	1976
1977	52.4 AT 14:52 CST ON JUN 10	50.1 ON MAY 21	10.5 B ON FEB 23	981 000	1977
1978	58.9 AT 19:20 CST ON NOV 01	57.8 ON NOV 01	16.5 B ON MAR 03	---	1978
1979	175 AT 23:00 CST ON JUN 17 *	173 ON JUN 17 *	14.6 B ON APR 27	1 800 000	1979
1980	57.6 AT 11:10 CST ON OCT 27	55.2 ON OCT 27	20.4 ON AUG 20	1 080 000	1980
1981	89.1 AT 17:08 CST ON JUL 09	86.2 ON JUL 09	22.0 B ON APR 18	1 320 000	1981
1982	86.2 AT 04:07 CST ON JUN 07	84.8 ON JUN 07	24.6 B ON APR 08	1 560 000	1982
1983	158 AT 16:10 CST ON JUN 13	157 ON JUN 14	22.1 B ON APR 23	2 000 000	1983
1984	71.6 ON JUN 23	71.0 ON JUN 23	---	---	1984
1985	130 AT 16:40 CST ON JUL 09	124 ON JUL 07	---	---	1985
1986	155 ON MAY 28	153 ON MAY 28	30.8 RB ON DEC 31	2 040 000	1986
1987	---	---	11.2 B ON DEC 30	---	1987
1988	77.1 AT 16:00 CST ON JUN 19	75.7 ON JUN 17	7.72B ON DEC 31	836 000	1988
1989	---	---	6.02 ON AUG 20 *	---	1989
1990	60.2 AT 17:50 CST ON JUN 15	59.3 ON JUN 16	8.69B ON MAR 11	849 000	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 300 000	MEAN
		R - REVISED SINCE JAN 01 1989			

HIDDEN ISLAND COULEE NEAR HANSBORO - STATION NO. 05OA005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	---	---	---	---	---	---	0	0	0	---	1961
1962	0	0	0	0.196	0.009	0.002	0	0	0	0	0	0	0.017	1962
1963	0	0	0.001	0	0	0.013	0	0	0	0	0	0	0.001	1963
1964	0	0	0	0.269	0.017	0.012	0.001	0.003	0.010	0.007	0	0	0.026	1964
1965	0	0	0	0.748	0.480	0.079	0.140	0.002	0	0	0	0	0.121	1965
1966	0	0	0.262	0.028	0.051	0.001	0.047	0.002	0	0	0	0	0.033	1966
1967	0	0	0.073	0.413	0.080	0	0	0	0	0	0	0	0.047	1967
1968	0	0	0.004	0.002	0.001	0	0	0.484	0.474	0.014	0.005	0.001	0.082	1968
1969	0	0	0	2.50	0.043	0.001	0.022	0	0	0	0	0	0.211	1969
1970	0	0	0.001	0.824	0.784	0.008	0.551	0.033	0.003	0	0	0	0.185	1970
1971	0	0	0	1.63	0.054	0.105	0.349	0.009	0	0	0	0	0.178	1971
1972	0	0	0.688	0.374	0.037	0.023	0.020	0.001	0	0	0	0	0.096	1972
1973	0	0	0.027	0.001	0.002	0.231	0.051	0	0.020	0.001	0	0	0.028	1973
1974	0	0	0	3.31	1.24	0.168	0	0	0	0	0	0	0.392	1974
1975	0	0	0	2.01	0.259	0.018	0.001	0	0	0	0	0	0.189	1975
1976	0	0	0.204	1.34	0.023	0	0	0	0	0	0	0	0.146	1976
1977	0	0	0	0.001	0	0	0	0	0	0	0	0	0	1977
1978	0	0	0	0.709	0.012	0	0	0	0	0	0	0	0.059	1978
1979	0	0	0	2.60	0.448	0.019	0	0	0	0	0	0	0.254	1979
1980	0	0	0	0.177	0.001	0	0	0	0.030	0.030	0.015	0	0.021	1980
1981	0	0.321	0.137	0.008	0.062	0.054	0.001	0	0	0	0	0	0.047	1981
1982	0	0	0.130	0.522	0.150	0.007	0	0	0	0.003	0.003	0.029	0.070	1982
1983	0	0	0.080	0.869	0.082	0.005	0.037	0	0	0	0	0	0.089	1983
1984	0	0	0.239	0.131	0.183	0	0	0	0	0	0	0	0.047	1984
1985	0	0	0.429	0.036	0.001	0.001	0	0	0	0	0	0	0.040	1985
1986	0	0	0.194	0.173	0.070	0.265	0.025	0	0	0	0	0	0.061	1986
1987	0	0	0.161	0.667	0.002	0	0	0.207	0	0	0	0	0.086	1987
1988	0	0	0	0.009	0	0	0	0	0	0	0	0	0.001	1988
1989	0	0	0	0.113	0.002	0	0	0	0	0	0	0	0.009	1989
1990	0	0	0.003	0.028	0.002	0.001	0	0	0	0	0	0	0.003	1990
MEAN	0	0.011	0.091	0.686	0.141	0.035	0.043	0.026	0.019	0.002	0.001	0.001	0.088	MEAN

LOCATION - LAT 48 57 10 N LONG 099 25 35 W DRAINAGE AREA, 68.1 km² NATURAL FLOW INTERNATIONAL GAUGING STATION

HIDDEN ISLAND COULEE NEAR HANSBORO - STATION NO. 05OA005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	---	0 ON OCT 01 *	---	1961
1962	1.13 ON APR 06	0.991 ON APR 06	0 ON JAN 01	538	1962
1963	0.252 AT 19:30 CST ON JUL 25	0.074 ON JUN 25	0 ON JAN 01	37.1	1963
1964	0.906B ON APR 09	0.850B ON APR 09	0 ON JAN 01	832	1964
1965	3.51 AT 03:00 CST ON APR 11	3.26 ON APR 11	0 ON JAN 01	3 810	1965
1966	1.87 B AT 20:00 CST ON MAR 14	1.39 B ON MAR 15	0 ON JAN 01	1 050	1966
1967	3.62 AT 10:00 CST ON APR 21	2.44 ON APR 21	0B ON JAN 01	1 480	1967
1968	6.17 AT 14:30 CST ON AUG 24	3.82 ON AUG 25	0B ON JAN 01	2 600	1968
1969	19.6 B ON APR 12	17.0 B ON APR 12	0B ON JAN 01	6 670	1969
1970	8.98 AT 11:30 CST ON APR 29	8.04 ON APR 29	0B ON JAN 01	5 830	1970
1971	18.0 AT 23:00 CST ON APR 10	10.5 ON APR 10	0 ON JAN 01	5 600	1971
1972	10.0 AT 20:00 CST ON MAR 16	4.47 ON MAR 17	0 ON JAN 01	3 030	1972
1973	1.47 AT 08:00 CST ON JUN 20	1.27 ON JUN 21	0 ON JAN 01	871	1973
1974	30.0 AT 08:00 CST ON APR 21	23.6 ON APR 21	0 ON JAN 01	12 400	1974
1975	11.5 AT 22:00 CST ON APR 28	9.91 ON APR 14	0 ON JAN 01	5 970	1975
1976	9.34 AT 23:00 CST ON APR 01	6.23 ON MAR 31	0 ON JAN 01	4 610	1976
1977	---	0.003B ON APR 09	0B ON JAN 01	2.33	1977
1978	---	4.25 B ON APR 06	0B ON JAN 01	1 870	1978
1979	34.0 B AT 10:50 CST ON APR 23 *	28.3 B ON APR 23 *	0B ON JAN 01	8 000	1979
1980	2.55 AT 23:15 CST ON APR 03	1.64 ON APR 04	0B ON JAN 01	658	1980
1981	2.69 B AT 20:45 CST ON FEB 21	1.81 B ON FEB 21	0B ON JAN 01	1 470	1981
1982	---	2.61 ON MAR 31	0B ON JAN 01	2 220	1982
1983	4.39 B AT 11:30 CST ON APR 02	2.27 B ON APR 06	0B ON JAN 01	2 800	1983
1984	7.48 AT 19:15 CST ON MAR 24	2.01 ON MAR 24	0 ON JAN 01	1 470	1984
1985	---	1.70 B ON MAR 17	0 ON JAN 01	1 250	1985
1986	7.82 AT 14:00 CST ON JUN 21	2.52 ON JUN 21	0 ON JAN 01	1 910	1986
1987	---	4.67 B ON APR 05	0 ON JAN 01	2 720	1987
1988	0.130 AT 00:45 CST ON APR 04	0.054 ON APR 04	0 ON JAN 01	23.7	1988
1989	---	0.566A ON APR 08	0 ON JAN 01	299	1989
1990	0.144 AT 18:45 CST ON APR 03	0.122 ON APR 04	0 ON JAN 01	87.2	1990
				2 760	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ICELANDIC RIVER NEAR RIVERTON - STATION NO. 05SC002

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	---	---	0.243	3.20	0.286	0.291	0.458	---	---	---	1958
1959	---	---	0.008	13.8	11.2	3.81	0.831	0.361	0.364	1.54	---	---	3.96	1959
1960	---	---	0.196	34.3	7.20	1.49	0.395	0.354	0.346	0.405	---	---	5.50	1960
1961	---	---	1.13	5.50	1.50	0.360	0.191	0.113	0.295	0.335	---	---	1.17	1961
1962	---	---	0.074	7.74	2.30	1.88	0.289	0.536	0.304	0.529	---	---	1.69	1962
1963	---	---	1.33	14.4	2.60	16.5	1.44	0.597	0.487	0.482	---	---	4.67	1963
1964	---	---	0.212	4.74	2.03	1.04	0.383	0.496	0.481	0.521	---	---	1.23	1964
1965	---	---	0.081	6.12	4.48	2.35	0.833	0.408	0.533	0.454	---	---	1.89	1965
1966	---	---	0.274	4.51	4.47	0.714	0.595	0.253	0.273	0.270	---	---	1.41	1966
1967	---	---	0.187	18.6	3.41	0.697	0.464	0.298	0.160	0.267	---	---	2.97	1967
1968	---	---	0.497	5.30	1.34	0.623	1.22	0.870	1.61	1.01	---	---	1.57	1968
1969	---	---	0.245	15.5	1.77	1.20	0.430	0.355	0.478	0.486	---	---	2.52	1969
1970	---	---	0.159	10.1	4.28	0.871	0.380	0.240	0.218	0.252	---	---	2.04	1970
1971	---	---	0.125	5.88	0.482	0.413	0.426	0.200	0.177	0.228	---	---	0.978	1971
1972	---	---	0.127	10.2	0.741	0.331	0.318	0.263	0.223	0.236	---	---	1.54	1972
1973	---	---	1.57	0.697	0.363	1.59	0.436	0.588	2.64	3.41	---	---	1.41	1973
1974	---	---	0.297	49.8	21.5	2.40	0.351	0.368	0.310	0.351	---	---	9.32	1974
1975	---	---	0.193	4.61	1.16	0.597	0.367	9.40	9.92	3.57	---	---	1.71	1975
1976	---	---	0.274	41.7	2.32	1.01	0.488	0.213	0.174	0.192	---	---	5.70	1976
1977	---	---	0.091	0.983	0.497	0.618	0.755	0.232	1.79	0.988	---	---	0.739	1977
1978	---	---	0.222	24.7	1.99	0.941	0.563	0.306	0.329	0.334	---	---	1.62	1978
1979	---	---	0.184	30.3	11.1	3.63	0.769	0.312	0.438	0.304	---	---	5.81	1979
1980	---	---	0.207	7.42	0.490	0.264	0.225	0.553	1.02	1.02	---	---	1.38	1980
1981	---	---	1.26	1.06	0.609	0.757	0.268	0.459	1.25	1.96	---	---	0.951	1981
1982	---	---	0.540	9.83	1.67	1.59	1.82	1.18	0.378	0.723	---	---	2.19	1982
1983	---	---	0.188	13.9	0.991	2.45	1.17	0.176	0.144	0.265	---	---	2.37	1983
1984	---	---	0.410	2.67	1.08	1.26	0.307	0.204	0.229	0.602	---	---	0.838	1984
1985	---	---	1.80	6.38	0.749	0.400	0.433	6.09	1.20	2.27	---	---	2.41	1985
1986	---	---	3.98	30.2	11.0	1.02	0.680	0.315	0.275	0.312	---	---	5.92	1986
1987	---	---	0.363	9.96	0.283	0.338	0.376	0.227	0.107	0.493	---	---	1.50	1987
1988	---	---	0.376	2.76	1.05	0.220	0.242	0.109	0.132	0.185	---	---	0.629	1988
1989	---	---	0.064	1.24	0.411	4.98	0.290	0.121	0.141	0.197	---	---	0.917	1989
1990	---	---	0.568	7.01	1.20	1.15	0.505	0.070	0.105	0.222	---	---	1.34	1990
MEAN	---	---	0.539	12.6	3.32	1.81	0.650	0.805	0.815	0.754	---	---	2.63	MEAN

LOCATION - LAT 50 57 35 N LONG 097 02 10 W DRAINAGE AREA, 1 270 km² NATURAL FLOW

ICELANDIC RIVER NEAR RIVERTON - STATION NO. 05SC002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	---	---	---	1958
1959	---	38.8 B ON APR 12	0 B ON MAR 01 *	83 800	1959
1960	---	104 ON APR 21	0.057 ON AUG 15	116 000	1960
1961	---	15.1 ON APR 22	0.071 ON MAR 01	24 700	1961
1962	---	49.8 B ON APR 22	0.071B ON MAR 01	35 700	1962
1963	---	73.6 B ON APR 09	0.142B ON MAR 01	103 000	1963
1964	---	15.7 B ON APR 16	0.204 ON AUG 09	26 000	1964
1965	---	34.3 B ON APR 14	0.057B ON MAR 01	40 100	1965
1966	---	20.6 ON MAY 05	0.110B ON MAR 01	30 000	1966
1967	---	83.3 B ON APR 16	0.091 ON JUL 28	52 800	1967
1968	---	18.0 B ON APR 09	0.181B ON MAR 01	33 200	1968
1969	---	85.0 B ON APR 13	0.170B ON APR 07	53 300	1969
1970	---	35.7 B ON APR 19	0.136B ON APR 06	43 300	1970
1971	---	41.3 ON APR 19	0.125B ON MAR 01	20 700	1971
1972	---	45.0 B ON APR 18	0.007 ON AUG 19	32 500	1972
1973	---	16.1 ON OCT 05	0.002 ON MAY 19	29 800	1973
1974	---	203 ON APR 20 *	0.181 ON AUG 10	197 000	1974
1975	---	52.1 ON AUG 26	0.142B ON MAR 01	78 600	1975
1976	---	123 ON APR 08	0.110 ON OCT 30	121 000	1976
1977	---	5.69 ON SEP 10	0.006B ON MAR 03	15 600	1977
1978	---	82.7 ON APR 18	0.161 ON AUG 29	76 600	1978
1979	---	156 ON APR 23	0.136B ON MAR 01	123 000	1979
1980	34.1 AT 20:52 CST ON APR 15	22.7 B ON APR 15	0.035 ON MAY 28	29 200	1980
1981	5.99 AT 20:45 CST ON SEP 07	5.12B ON MAR 31	0.072B ON MAR 10	20 100	1981
1982	51.6 AT 21:00 CST ON APR 16	45.1 ON APR 16	0.223 ON SEP 17	46 500	1982
1983	65.3 B AT 22:50 CST ON APR 07	55.1 B ON APR 07	0.122 ON SEP 13	50 200	1983
1984	9.77B AT 15:48 CST ON APR 04	8.88B ON APR 07	0.041B ON MAR 16	17 700	1984
1985	23.7 AT 20:59 CST ON APR 03	22.5 B ON APR 03	0.046B ON MAR 09	51 100	1985
1986	167 AT 05:10 CST ON APR 02 *	129 B ON APR 02	0.159B ON MAR 13	125 000	1986
1987	124 AT 14:20 CST ON APR 07	87.2 B ON APR 07	0.042 ON MAY 21	31 800	1987
1988	16.8 B AT 01:37 CST ON APR 05	15.6 B ON APR 05	0.007 ON JUL 24	13 300	1988
1989	48.1 AT 21:47 CST ON JUN 13	40.9 ON JUN 14	0.017B ON MAR 04	19 400	1989
1990	28.8 B AT 13:28 CST ON APR 02	27.3 B ON APR 02	0.009 ON SEP 10	28 300	1990
				55 600	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ISLAND LAKE RIVER NEAR ISLAND LAKE - STATION NO. 04AC007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1933	---	16.7	15.1	14.4	45.2	74.6	67.2	53.6	43.7	44.5	53.8	56.0	---	1933
1934	53.6	49.5	42.3	39.1	70.9	211	207	141	103	107	104	85.7	101	1934
1935	71.6	59.9	50.7	48.2	84.8	96.5	87.6	70.4	68.0	90.3	111	99.8	78.4	1935
1936	79.9	61.6	50.5	39.9	36.5	110	154	109	77.0	65.1	57.8	52.5	74.6	1936
1937	45.4	39.9	33.7	31.4	124	252	231	157	113	107	112	103	113	1937
1938	82.0	66.3	54.0	47.5	96.0	145	157	136	104	78.2	60.8	53.4	90.2	1938
1939	45.4	38.2	32.8	29.3	36.6	82.8	145	124	89.9	73.7	68.0	62.5	69.4	1939
1940	56.1	47.3	39.3	33.9	59.3	87.7	89.7	73.8	55.5	50.7	49.8	47.3	57.6	1940
1941	44.0	40.7	37.6	36.0	115	162	141	101	68.1	56.6	47.9	42.0	74.6	1941
1942	40.0	38.2	36.5	37.4	95.9	68.6	73.7	85.1	92.1	80.7	69.4	62.3	61.8	1942
1943	55.3	49.7	40.8	35.3	71.5	107	108	89.0	82.5	84.9	74.8	65.7	72.2	1943
1944	56.0	48.1	39.1	32.4	43.3	54.4	70.6	67.0	71.0	81.2	78.4	70.7	59.4	1944
1945	61.8	53.2	44.5	43.1	68.4	148	217	187	139	121	106	92.8	107	1945
1946	70.8	58.7	48.3	48.8	91.9	111	149	162	120	96.5	87.4	74.0	93.5	1946
1947	65.2	56.7	46.6	37.6	62.4	168	237	189	164	153	127	98.8	118	1947
1948	80.6	63.2	51.6	42.5	58.1	59.7	53.7	53.2	43.4	32.7	28.8	25.3	49.4	1948
1949	23.7	22.6	20.4	20.2	43.2	74.3	87.2	94.4	110	193	206	174	89.5	1949
1950	134	99.9	74.6	59.7	75.7	177	216	212	158	122	109	91.5	128	1950
1951	74.8	61.9	52.7	47.3	99.5	124	117	128	147	167	153	119	108	1951
1952	88.0	69.3	54.6	52.2	109	164	219	233	211	191	168	139	142	1952
1953	104	79.0	63.4	54.7	80.6	125	225	186	128	96.8	89.9	82.0	110	1953
1954	72.4	60.9	50.8	41.9	52.5	105	125	101	77.1	72.1	73.0	70.9	75.3	1954
1955	63.2	54.5	46.5	50.0	123	156	173	155	122	114	108	96.1	106	1955
1956	81.2	68.5	57.9	48.4	59.1	156	149	98.9	69.8	54.4	59.3	62.0	80.4	1956
1957	58.2	50.9	46.3	41.8	99.5	136	169	136	102	76.8	61.1	52.0	86.1	1957
1958	44.6	39.9	35.7	43.0	82.9	125	115	104	85.0	76.1	77.5	79.1	75.9	1958
1959	70.4	59.1	48.5	43.1	141	284	276	203	144	115	101	87.8	132	1959
1960	73.5	62.0	51.4	46.3	73.4	144	122	83.5	75.0	66.0	59.5	54.3	76.0	1960
1961	45.5	37.4	31.8	30.0	45.5	60.3	54.7	44.9	35.8	31.7	38.8	43.2	41.7	1961
1962	42.3	37.2	31.5	28.2	60.1	119	103	73.5	59.6	55.8	56.8	60.3	60.7	1962
1963	50.1	51.9	46.9	44.3	95.8	164	145	103	88.0	75.7	66.3	59.0	83.3	1963
1964	52.2	44.3	40.8	39.1	114	157	123	91.8	69.9	58.7	52.1	48.3	74.4	1964
1965	44.7	37.1	33.6	33.6	74.3	---	---	---	---	175	158	142	---	1965
1966	131	123	99.3	88.0	97.2	169	201	157	128	103	91.2	81.1	123	1966
1967	69.4	60.5	48.3	48.6	87.4	274	260	205	132	94.9	76.2	68.3	119	1967
1968	62.2	56.5	45.4	38.5	85.6	164	181	181	158	141	129	111	113	1968
1969	86.9	69.2	56.5	52.9	78.9	89.8	82.8	97.6	148	222	209	163	113	1969
1970	123	94.2	69.2	57.3	84.3	117	155	138	104	106	126	126	109	1970
1971	106	87.9	71.5	65.2	140	180	169	139	95.1	69.9	65.1	60.9	104	1971
1972	55.5	47.8	40.5	35.7	94.2	128	107	87.6	66.2	57.2	52.7	49.4	68.6	1972
1973	46.3	41.7	37.7	38.1	87.2	146	154	122	85.3	84.2	95.2	90.9	86.0	1973
1974	72.9	63.0	59.3	52.3	79.2	133	118	108	84.0	69.5	61.6	57.6	80.0	1974
1975	58.0	53.0	47.8	42.8	73.5	147	144	135	134	130	109	88.2	97.1	1975
1976	75.7	63.4	53.5	49.4	57.0	---	---	---	---	40.5	30.9	29.8	---	1976
1977	30.5	30.2	29.7	31.8	51.8	57.8	59.2	74.2	79.4	81.4	73.4	65.6	55.6	1977
1978	57.3	50.0	44.5	45.3	67.6	81.6	79.7	77.2	75.7	103	132	122	78.1	1978
1979	96.0	75.1	62.4	57.2	102	210	208	175	128	113	118	107	121	1979
1980	88.6	74.2	63.0	---	---	---	72.7	58.5	52.4	60.9	63.9	60.5	---	1980
1981	55.8	48.2	42.6	38.3	47.6	64.8	85.2	77.6	61.2	63.8	74.2	76.5	61.4	1981
1982	70.6	61.8	54.1	---	---	126	132	128	104	87.9	82.0	81.4	---	1982
1983	77.0	68.4	59.5	52.0	108	186	196	156	108	83.4	77.0	72.7	104	1983
1984	65.7	58.9	50.9	51.1	85.2	112	118	92.5	65.6	57.1	52.4	54.8	72.1	1984
1985	52.2	47.7	43.3	---	---	---	---	---	141	108	91.3	78.1	---	1985
1986	68.4	60.3	52.6	52.9	118	145	114	93.7	72.9	66.8	62.8	58.7	80.7	1986
1987	55.6	52.5	47.3	51.4	86.2	90.1	82.5	83.4	105	89.1	75.2	68.8	74.0	1987
1988	61.3	55.7	48.9	46.1	61.7	93.5	79.5	58.3	41.6	33.2	28.6	28.2	53.0	1988
1989	27.8	26.8	25.3	24.7	37.2	61.6	61.2	52.2	55.0	57.9	67.8	68.8	47.3	1989
1990	63.1	56.8	50.7	48.2	117	180	151	118	84.1	63.2	53.3	49.8	86.5	1990
MEAN	66.6	56.0	47.5	43.4	79.9	133	139	117	96.9	90.5	85.7	77.1	87.2	MEAN

LOCATION - LAT 54 03 34 N DRAINAGE AREA, 14 000 km²
LONG 094 39 34 W NATURAL FLOW

ISLAND LAKE RIVER NEAR ISLAND LAKE - STATION NO. 04AC007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1933	---	76.7 ON JUN 20	13.7 ON APR 10 *	---	1933
1934	---	227 ON JUN 19	37.9 ON APR 12	3 200 000	1934
1935	---	114 ON NOV 22	43.6 ON APR 18	2 470 000	1935
1936	---	164 ON JUL 07	29.4 ON MAY 24	2 360 000	1936
1937	---	273 ON JUN 26	28.9 ON APR 14	3 560 000	1937
1938	---	162 ON JUL 07	46.4 ON APR 13	2 840 000	1938
1939	---	157 ON JUL 18	28.1 ON APR 20	2 190 000	1939
1940	---	95.7 ON JUN 29	32.0 ON APR 22	1 820 000	1940
1941	---	172 ON JUN 07	34.0 ON APR 15	2 350 000	1941
1942	---	95.7 ON AUG 28	35.1 ON APR 06	1 950 000	1942
1943	---	111 ON JUN 21	31.1 ON APR 19	2 280 000	1943
1944	---	84.4 ON OCT 16	29.7 ON APR 23	1 880 000	1944
1945	---	224 ON JUL 19	42.2 ON MAR 23	3 380 000	1945
1946	---	179 ON JUL 30	43.6 ON APR 07	2 950 000	1946
1947	---	249 ON JUL 11	33.7 ON APR 28	3 710 000	1947
1948	---	86.9 ON JAN 01	24.3E ON DEC 31	1 560 000	1948
1949	---	216 ON OCT 30	18.9 ON APR 08	2 820 000	1949
1950	---	242 ON JUL 30	54.9 ON MAY 04	4 030 000	1950
1951	---	174 ON OCT 17	46.2 ON APR 22	3 410 000	1951
1952	---	247 ON AUG 04	46.7 ON APR 14	4 490 000	1952
1953	---	238 ON JUL 16	51.5 ON APR 22	3 460 000	1953
1954	---	128 ON JUL 07	37.4 ON MAY 07	2 370 000	1954
1955	---	183 ON JUL 19	41.9 ON APR 06	3 330 000	1955
1956	---	172 ON JUN 26	43.3 ON MAY 02	2 540 000	1956
1957	---	177 ON JUL 13	37.7 ON APR 19	2 720 000	1957
1958	---	129 ON JUN 18	33.4 ON MAR 30	2 390 000	1958
1959	---	300 ON JUN 30 *	41.3 ON APR 25	4 150 000	1959
1960	---	152 ON JUN 18	43.9 ON MAY 03	2 400 000	1960
1961	---	62.0 ON JUN 11	29.4 ON APR 16	1 310 000	1961
1962	---	125 ON JUN 16	27.4 ON APR 26	1 920 000	1962
1963	---	179 ON JUN 26	43.3 ON MAR 26	2 630 000	1963
1964	---	166 ON JUN 02	37.7 ON APR 09	2 350 000	1964
1965	---	---	32.8 ON MAR 22	---	1965
1966	---	212 ON JUL 05	75.3 ON DEC 30	3 970 000	1966
1967	---	292 E ON JUN 19	45.0 ON MAR 24	3 750 000	1967
1968	---	195 ON AUG 02	35.7 ON APR 15	3 570 000	1968
1969	237 AT 15:56 CST ON OCT 23 *	237 ON OCT 23	48.1 ON APR 14	3 570 000	1969
1970	165 AT 06:48 CST ON JUL 26	164 ON JUL 21	54.7 ON APR 22	3 420 000	1970
1971	---	187 ON JUN 08	59.5E ON DEC 21	3 290 000	1971
1972	138 AT 21:36 CST ON JUN 13	135 ON JUN 18	32.3 ON APR 14	2 170 000	1972
1973	160 AT 23:30 CST ON JUL 11	158 ON JUL 09	35.1 ON APR 03	2 710 000	1973
1974	140 AT 03:50 CST ON JUN 21	139 ON JUN 16	49.6 ON APR 25	2 520 000	1974
1975	166 AT 01:11 CST ON JUN 27	164 ON JUN 25	41.1 ON APR 16	3 060 000	1975
1976	---	---	---	---	1976
1977	83.0 AT 17:49 CST ON SEP 16	83.0 ON OCT 09	29.4E ON APR 05	1 750 000	1977
1978	137 AT 20:17 CST ON NOV 16	136 ON NOV 16	43.0 ON MAR 23	2 460 000	1978
1979	229 AT 18:30 CST ON JUN 27	228 ON JUN 28	53.8 ON APR 15	3 830 000	1979
1980	---	---	---	---	1980
1981	---	85.9E ON JUL 19	36.9 ON APR 19	1 940 000	1981
1982	140 AT 18:30 CST ON JUN 23	138 ON JUN 23	---	---	1982
1983	209 AT 13:46 CST ON JUL 16	202 ON JUL 15	48.5 ON APR 20	3 280 000	1983
1984	125 AT 06:44 CST ON JUN 30	124 ON JUN 28	44.8 ON APR 05	2 280 000	1984
1985	---	---	---	---	1985
1986	157 AT 13:42 CST ON JUN 02	155 ON MAY 29	48.9 ON APR 13	2 540 000	1986
1987	110 AT 20:50 CST ON SEP 18	109 ON SEP 16	41.8 ON APR 06	2 330 000	1987
1988	98.5 AT 05:17 CST ON JUN 12	97.2 ON JUN 20	27.4 ON NOV 09	1 680 000	1988
1989	73.4 AT 12:00 CST ON DEC 03	72.4 ON DEC 04	24.1 ON APR 18	1 490 000	1989
1990	187 AT 20:00 CST ON JUN 12	185 ON JUN 13	43.7 ON APR 17	2 730 000	1990
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 750 000	MEAN

JACKFISH CREEK AT OUTLET OF MOON LAKE - STATION NO. 05MF022

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	0.379	0.299	0.004	0	0.003	0.003	0	0	---	1963
1964	0.007	0.011	0.011	0.306	0.449	0.003	0	0	0	0	0	0	0.066	1964
1965	0	0	0	0.057	0.636	0.253	0.020	0.193	0.531	0.192	0.061	0.054	0.167	1965
1966	0.030	0.027	0.025	0.223	0.810	0.281	0.104	0.038	0.013	0	0	0	0.130	1966
1967	0	0	0	0	0.638	0.095	0.014	0.003	0	0.001	0.005	0.007	0.065	1967
1968	0	0	0	0	0.397	0.293	0.278	0.084	0.414	0.055	0.046	0.033	0.134	1968
1969	0.022	0.027	0.028	0.179	0.177	0.458	0.782	0.068	0.028	0.037	0.062	0.029	0.159	1969
1970	0	0	0	0	1.19	0.301	0.150	0.019	0.028	0.063	0.265	0.111	0.179	1970
MEAN	0.008	0.009	0.009	0.109	0.585	0.248	0.169	0.051	0.127	0.044	0.055	0.029	0.129	MEAN

LOCATION - LAT 50 52 20 N LONG 100 02 48 W DRAINAGE AREA, 18.9 km^2 NATURAL FLOW

JACKFISH CREEK AT OUTLET OF MOON LAKE - STATION NO. 05MF022

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	0E ON AUG 01 *	---	1963
1964	---	1.77 ON APR 28	0 ON JUL 01	2 080	1964
1965	---	1.39 ON MAY 02	0B ON JAN 01	5 270	1965
1966	---	1.30 ON MAY 19	0E ON SEP 23	4 100	1966
1967	---	1.83 ON MAY 20	0B ON JAN 01	2 030	1967
1968	---	2.34 ON MAY 25	0B ON JAN 01	4 220	1968
1969	---	2.60E ON JUN 29 *	0 ON MAY 07	5 010	1969
1970	---	2.29 ON MAY 18	0B ON JAN 01	5 640	1970
				4 050	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

JACKSON CREEK NEAR MELITA - STATION NO. 05NF015

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1936	---	---	---	---	0.058	---	---	---	---	---	---	---	---	1936
1975	---	---	0	2.68	1.86	0.713	0.085	0	0.052	0.550	---	---	0.737	1975
1976	---	---	0.005	16.9	0.915	0.044	0.027	0	0	0	---	---	2.20	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.006	0	0	0	0	0	0	---	---	0.001	1978
1979	---	---	0	0.244	0.343	0.003	0	0	0	0	---	---	0.074	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	---	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.173	0.009	0	0	0	0	0	---	---	0.022	1982
1983	---	---	0.022	0.891	0.066	0.003	0	0	0	0	---	---	0.121	1983
1984	---	---	0	0	0.002	0	0	0	0	0	---	---	0	1984
1985	---	---	0.341	0.102	0.004	0	0	0	0	0	---	---	0.056	1985
1986	---	---	0.072	0.238	0.272	0.009	0.005	0.001	0	0	---	---	0.075	1986
1987	---	---	0.286	0.610	0	0	0	0	0	0	---	---	0.111	1987
1988	---	---	0	0	0	0	0	0	0	0	---	---	0	1988
1989	---	---	0	0.403	0	0	0	0	0	0	---	---	0.049	1989
1990	---	---	0	0	0	0	0	0	0	0	---	---	0	1990
MEAN	---	---	0.045	1.39	0.208	0.048	0.007	0	0.003	0.034	---	---	0.215	MEAN

LOCATION - LAT 49 18 00 N LONG 100 57 50 W DRAINAGE AREA, 490 km^2 NATURAL FLOW

JACKSON CREEK NEAR MELITA - STATION NO. 05NF015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1936	---	---	---	---	1936
1975	---	10.6 ON APR 29	0B ON MAR 01 *	15 600	1975
1976	---	38.2 B ON APR 11 *	0 ON JUL 21	46 500	1976
1977	---	0 B ON MAR 01	0B ON MAR 01	0	1977
1978	---	0.045B ON APR 10	0B ON MAR 01	15.7	1978
1979	2.15 AT 06:00 CST ON APR 22	1.64 ON APR 22	0B ON MAR 01	1 560	1979
1980	---	0 B ON MAR 01	0B ON MAR 01	0	1980
1981	---	0 B ON MAR 01	0B ON MAR 01	0	1981
1982	0.954 AT 10:00 CST ON APR 17	0.793 ON APR 17	0B ON MAR 01	472	1982
1983	3.35 B AT 07:34 CST ON APR 13	1.85 B ON APR 13	0B ON MAR 01	2 550	1983
1984	0.019 AT 12:48 CST ON MAY 07	0.012 ON MAY 09	0B ON MAR 01	4.92	1984
1985	---	2.50 B ON MAR 17	0B ON MAR 01	1 190	1985
1986	0.768 AT 08:44 CST ON MAR 29	0.701 ON MAY 12	0B ON MAR 01	1 580	1986
1987	4.39 B AT 10:00 CST ON APR 06	2.99 B ON MAR 23	0B ON MAR 01	2 350	1987
1988	0 B AT 00:01 CST ON MAR 01	0 B ON MAR 01	0B ON MAR 01	0	1988
1989	6.93 AT 05:29 CST ON APR 05 *	4.07 ON APR 05	0B ON MAR 01	1 050	1989
1990	---	0 B ON MAR 01	0B ON MAR 01	0	1990
				4 550	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

JORDAN CREEK DRAIN NEAR PLUMAS - STATION NO. 05LL008

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	1.71	0.549	0.036	0	0	0	0	---	---	0.283	1960
1961	---	---	0	0	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0.392	0.172	0.073	0	0	0	0	---	---	0.079	1962
1963	---	---	0.017	0.327	0.063	0.361	0.045	0	0	0	---	---	0.100	1963
1964	---	---	0	0.046	0.021	0.001	0	0	0	0	---	---	0.008	1964
1965	---	---	0	1.34	0.167	0.074	0.002	0	0.042	0.012	---	---	0.202	1965
1966	---	---	0.253	1.05	0.333	0.028	0.002	0.001	0	0	---	---	0.206	1966
1967	---	---	0	1.21	0.811	0.021	0	0	0	0	---	---	0.253	1967
1968	---	---	0.022	0.020	0.010	0.001	0	0.018	0.035	0.002	---	---	0.013	1968
1969	---	---	0	1.83	0.186	0.059	0.276	0.131	0.043	0.036	---	---	0.316	1969
1970	---	---	0	2.79	2.70	0.158	0.017	0	0	0	---	---	0.705	1970
1971	---	---	0	0.156	0.029	0.841	0.903	0.078	0.003	0.060	---	---	0.258	1971
1972	---	---	0.198	1.52	0.152	0.013	0	0	0	0	---	---	0.232	1972
1973	---	---	0.010	0.001	0.005	0.002	0	0	0	0	---	---	0.002	1973
1974	---	---	0	2.47	2.58	0.154	0	0	0	0	---	---	0.648	1974
1975	---	---	0	0.222	0.130	0.016	0.058	0.124	0.722	0.438	---	---	0.212	1975
1976	---	---	0	4.30	0.227	0.001	0.006	0	0	0	---	---	0.556	1976
1977	---	---	0	0	0.001	0	0.001	0	0.001	0.001	---	---	0.001	1977
1978	---	---	0	0.155	0.028	0.009	0.002	0	0	0	---	---	0.024	1978
1979	---	---	0	2.07	2.50	0.113	0.002	0	0	0	---	---	0.584	1979
1980	---	---	0	0.028	0	0	0	0.007	0.008	0.012	---	---	0.007	1980
1981	---	---	0.002	0.004	0.006	0.035	0.015	0	0	0.004	---	---	0.008	1981
1982	---	---	0.064	0.587	0.041	0.021	0.009	0.005	0	0.003	---	---	0.090	1982
MEAN	---	---	0.025	0.966	0.466	0.088	0.058	0.016	0.037	0.025	---	---	0.208	MEAN

LOCATION - LAT 50 23 25 N LONG 099 02 44 W DRAINAGE AREA, 49.7 km² NATURAL FLOW

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "JORDAN CREEK NEAR PLUMAS"

JORDAN CREEK DRAIN NEAR PLUMAS - STATION NO. 05LL008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	6.88 ON APR 16	0B ON MAR 01 *	5 990	1960
1961	---	0 ON MAR 01	0 ON MAR 01	0	1961
1962	---	2.02 B ON APR 21	0B ON MAR 01	1 660	1962
1963	---	1.60 ON JUN 10	0B ON MAR 01	2 120	1963
1964	---	0.294B ON APR 11	0B ON MAR 01	177	1964
1965	---	4.73 B ON APR 13	0B ON MAR 01	4 270	1965
1966	---	4.64 B ON APR 01	0B ON MAR 01	4 360	1966
1967	---	3.48 ON APR 29	0B ON MAR 01	5 360	1967
1968	---	0.323B ON MAR 28	0B ON MAR 01	283	1968
1969	---	6.40 ON APR 11	0B ON MAR 01	6 680	1969
1970	---	10.5 ON APR 29	0B ON MAR 01	14 900	1970
1971	---	3.06 ON JUN 21	0B ON MAR 01	5 460	1971
1972	---	4.33 B ON APR 13	0B ON MAR 01	4 920	1972
1973	---	0.031B ON MAR 20	0B ON MAR 01	45.9	1973
1974	---	11.0 ON APR 18 *	0B ON MAR 01	13 700	1974
1975	---	3.34 ON SEP 20	0B ON MAR 01	4 500	1975
1976	---	10.8 B ON APR 07	0B ON MAR 01	11 800	1976
1977	---	0.008 ON JUL 16	0B ON MAR 01	10.7	1977
1978	---	0.507B ON APR 16	0B ON MAR 01	506	1978
1979	8.16 AT 03:00 CST ON APR 30 *	7.99 ON APR 30	0B ON MAR 01	12 400	1979
1980	0.116 AT 11:27 CST ON AUG 23	0.085 ON APR 17	0B ON MAR 01	144	1980
1981	---	0.104 ON JUN 28	0B ON MAR 01	176	1981
1982	---	1.36 B ON APR 16	0B ON MAR 01	1 900	1982
				4 410	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

JOUBERT CREEK AT ST. PIERRE-JOLYS - STATION NO. 05OE007

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	0.478	14.6	9.14	2.99	3.85	0.535	3.02	0.261	---	---	4.33	1966
1967	---	---	0.318	16.2	7.11	0.407	0.077	0.034	0.006	0.042	---	---	2.99	1967
1968	---	---	0.140	0.491	0.570	0.506	0.932	0.665	1.07	0.254	---	---	0.577	1968
1969	---	---	0.092	7.76	1.94	0.333	0.176	0.064	0.048	0.057	---	---	1.29	1969
1970	---	---	0.028	6.75	12.9	5.25	0.239	0.042	0.055	0.119	---	---	3.16	1970
1971	---	---	0	3.02	0.815	0.056	0.030	0.016	0.003	0.058	---	---	0.494	1971
1972	---	---	0.278	0.670	0.334	0.064	0.010	0.019	0.007	0.061	---	---	0.180	1972
1973	---	---	0.297	0.124	0.096	0.044	0.019	0.002	0.020	0.153	---	---	0.095	1973
1974	---	---	0	11.1	13.1	3.94	0.193	0.038	0.016	0.044	---	---	3.54	1974
1975	---	---	0.083	0.256	0.277	0.417	1.02	0.017	0.007	0.016	---	---	0.262	1975
1976	---	---	0.005	0.547	0.088	0.199	0.010	0	0	0	---	---	0.104	1976
1977	---	---	0.037	0.131	0.033	0.026	0.006	0.003	0.007	0.025	---	---	0.033	1977
1978	---	---	0.131	2.46	0.674	0.061	0.026	0.001	0	0	---	---	0.415	1978
1979	---	---	0.009	3.18	3.06	1.31	0.163	0.024	0.019	0.038	---	---	0.969	1979
1980	---	---	0.050	1.06	0.073	0.002	0	0.001	0.002	0.031	---	---	0.150	1980
1981	---	---	0.147	0.188	0.126	0.046	0.027	0.002	0.001	0.100	---	---	0.080	1981
1982	---	---	0.205	3.20	0.925	1.48	1.67	0.371	0.020	0.741	---	---	1.07	1982
1983	---	---	1.55	5.78	0.703	0.348	0.362	0.009	0.020	0.018	---	---	1.09	1983
1984	---	---	0.272	0.501	0.135	0.971	0.394	0.023	0.004	0.026	---	---	0.288	1984
1985	---	---	0.435	0.517	0.204	0.094	0.058	0.236	0.069	0.204	---	---	0.227	1985
1986	---	---	1.04	5.04	9.35	0.428	0.181	0.086	0.022	0.164	---	---	2.04	1986
1987	---	---	0.273	5.53	0.540	0.089	0.081	0.015	0.004	0.036	---	---	0.809	1987
1988	---	---	0.073	0.398	0.114	0.008	0.003	0.055	0.002	0.004	---	---	0.081	1988
1989	---	---	0	0.728	0.116	0.053	0.006	0.001	0	0.001	---	---	0.111	1989
1990	---	---	0.528	0.574	0.166	0.934	0.141	0.001	0	0	---	---	0.291	1990
MEAN	---	---	0.259	3.63	2.50	0.802	0.387	0.090	0.177	0.098	---	---	0.987	MEAN

LOCATION - LAT 49 26 26 N LONG 096 59 23 W DRAINAGE AREA, 329 km² NATURAL FLOW

REMARKS - PUBLISHED AS "JOUBERT CREEK AT ST. PIERRE" PRIOR TO 1979

JOUBERT CREEK AT ST. PIERRE-JOLYS - STATION NO. 05OE007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	28.3 ON APR 07	0 B ON MAR 01 *	91 600	1966
1967	---	27.2 ON APR 22	0 B ON MAR 01	63 300	1967
1968	---	4.16 ON MAY 15	0 B ON MAR 01	12 200	1968
1969	---	15.9 ON APR 19	0.028 ON AUG 18	27 300	1969
1970	---	19.6 ON APR 28	0.028B ON MAR 01	66 900	1970
1971	---	6.82 B ON APR 12	0 B ON MAR 01	10 500	1971
1972	---	1.99 B ON APR 16	0 B ON MAR 01	3 800	1972
1973	---	1.54 B ON MAR 13	0 B ON MAR 01	2 010	1973
1974	---	34.5 ON APR 23 *	0 B ON MAR 01	75 000	1974
1975	---	8.38 ON JUL 01	0.002 ON SEP 17	5 550	1975
1976	---	3.96 B ON APR 05	0 B ON MAR 01	2 210	1976
1977	---	0.430B ON MAR 30	0 ON JUL 01	701	1977
1978	---	5.38 B ON APR 10	0 ON AUG 09	8 780	1978
1979	16.4 AT 17:49 CST ON APR 20	15.4 ON APR 20	0 ON AUG 15	20 500	1979
1980	4.02 AT 17:02 CST ON APR 05	3.36 B ON APR 05	0 ON JUN 13	3 170	1980
1981	0.894 AT 04:03 CST ON MAY 29	0.664 ON MAY 29	0 ON JUN 12	1 690	1981
1982	---	6.60 B ON APR 15	0 ON OCT 02	22 700	1982
1983	14.1 B AT 06:10 CST ON APR 08	12.8 B ON APR 08	0 ON JUL 24	23 000	1983
1984	2.64 AT 08:02 CST ON JUN 09	2.38 ON JUN 09	0 E ON AUG 26	6 100	1984
1985	2.53 B AT 09:26 CST ON MAR 26	2.40 B ON MAR 26	0 ON JUL 26	4 810	1985
1986	21.3 AT 23:54 CST ON MAY 05 *	19.3 ON MAY 06	0.001B ON MAR 01	43 200	1986
1987	12.2 AT 05:53 CST ON APR 07	11.9 B ON APR 07	0 B ON MAR 01	17 100	1987
1988	---	1.47 B ON APR 05	0 B ON MAR 01	1 720	1988
1989	---	3.74 B ON APR 16	0 B ON MAR 01	2 360	1989
1990	4.58 AT 01:26 CST ON MAR 31	3.68 B ON MAR 31	0 B ON MAR 01	6 150	1990
				20 900	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

KENTON CREEK AT KENTON - STATION NO. 05MG006

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	0.269	0	0	0	0.010	0	0	---	---	0.034	1962
1963	---	---	0.169	0.027	0.020	0.232	0	0.008	0	0	---	---	0.057	1963
1964	---	---	0	0.249	0.011	0	0	0	0	0	---	---	0.032	1964
1965	---	---	0	0.760	0.001	0.001	0.354	0	0.005	0	---	---	0.139	1965
1966	---	---	0.133	0.098	0.037	0	0	0	0	0	---	---	0.034	1966
1967	---	---	0	0.367	0.008	0	0	0	0	0	---	---	0.046	1967
1968	---	---	0.132	0.005	0	0	0	0	0	0	---	---	0.017	1968
1969	---	---	0	1.26	0.009	0	0.003	0.001	0	0	---	---	0.155	1969
1970	---	---	0	0.591	0.023	0	0	0	0	0	---	---	0.075	1970
1971	---	---	0.009	0.061	0	0.124	0.002	0	0	0	---	---	0.024	1971
1972	---	---	0.250	0.281	0.002	0	0	0	0	0	---	---	0.066	1972
1973	---	---	0.014	0	0	0	0	0	0	0	---	---	0.002	1973
1974	---	---	0	0.862	0.049	0	0	0	0	0	---	---	0.112	1974
1975	---	---	0	0.808	0.059	0.012	0	0	0	0	---	---	0.108	1975
1976	---	---	0	1.08	0.003	0.010	0.001	0	0	0	---	---	0.134	1976
1977	---	---	0.004	0.002	0.001	0	0	0	0	0	---	---	0.001	1977
1978	---	---	0.047	0.122	0.003	0	0.001	0	0	0	---	---	0.021	1978
1979	---	---	0	0.595	0.026	0.001	0	0	0	0	---	---	0.076	1979
1980	---	---	0	0.027	0	0	0	0	0	0	---	---	0.003	1980
1981	---	---	0.008	0	0	0	0	0	0	0	---	---	0.001	1981
1982	---	---	0.008	0.155	0	0	0	0	0	0	---	---	0.020	1982
1983	---	---	0	0.437	0.002	0	0	0	0	0	---	---	0.054	1983
1984	---	---	0.003	0	0	0	0	0	0	0	---	---	0	1984
1985	---	---	0.135	0.040	0	0	0	0	0	0	---	---	0.022	1985
1986	---	---	0.333	0.097	0.134	0.018	0.024	0	0	0	---	---	0.076	1986
1987	---	---	0.071	0.364	0	0	0	0	0	0	---	---	0.054	1987
1988	---	---	0.001	0.013	0	0	0	0	0	0	---	---	0.002	1988
1989	---	---	0	0.011	0	0	0	0	0	0	---	---	0.001	1989
1990	---	---	0.075	0.140	0.002	0.199	0	0	0	0	---	---	0.051	1990
MEAN	---	---	0.048	0.301	0.013	0.021	0.013	0.001	0	0	---	---	0.049	MEAN

LOCATION - LAT 49 59 24 N DRAINAGE AREA, 45.8 km²
LONG 100 36 39 W NATURAL FLOW

KENTON CREEK AT KENTON - STATION NO. 05MG006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	4.11 ON APR 16	0 ON MAR 01 *	724	1962
1963	---	4.30 ON JUN 09	0B ON MAR 01	1 200	1963
1964	---	2.57 ON APR 04	0B ON MAR 01	675	1964
1965	---	8.44 ON JUL 20	0B ON MAR 01	2 930	1965
1966	---	1.42 ON MAR 31	0B ON MAR 01	709	1966
1967	---	1.21 B ON APR 09	0B ON MAR 01	973	1967
1968	---	0.864B ON MAR 28	0B ON MAR 01	368	1968
1969	---	8.50 E ON APR 12 *	0B ON MAR 01	3 290	1969
1970	---	1.74 ON APR 17	0B ON MAR 01	1 590	1970
1971	---	1.68 ON JUN 15	0B ON MAR 01	509	1971
1972	---	1.50 ON APR 09	0B ON MAR 01	1 400	1972
1973	---	0.054 ON MAR 13	0B ON MAR 01	38.1	1973
1974	---	6.34 B ON APR 16	0B ON MAR 01	2 360	1974
1975	---	4.62 ON APR 28	0B ON MAR 01	2 280	1975
1976	---	6.91 ON APR 09	0B ON MAR 01	2 840	1976
1977	---	0.016 ON MAR 28	0B ON MAR 01	18.6	1977
1978	---	0.591 ON MAR 31	0B ON MAR 01	450	1978
1979	---	3.97 ON APR 19	0B ON MAR 01	1 610	1979
1980	---	0.303 ON APR 06	0B ON MAR 01	70.0	1980
1981	---	0.038B ON MAR 14	0 ON MAR 29	22.4	1981
1982	---	1.13 B ON APR 12	0B ON MAR 01	425	1982
1983	3.63 B AT 19:45 CST ON APR 09	2.47 B ON APR 10	0B ON MAR 01	1 140	1983
1984	---	0.035B ON MAR 26	0B ON MAR 01	9.33	1984
1985	1.87 AT 15:41 CST ON MAR 21	0.856B ON MAR 21	0B ON MAR 01	465	1985
1986	2.96 B AT 21:26 CST ON MAR 23	2.62 B ON MAR 23	0B ON MAR 01	1 620	1986
1987	3.95 AT 17:20 CST ON APR 04	2.67 B ON APR 04	0B ON MAR 01	1 130	1987
1988	0.196 AT 17:10 CST ON APR 02	0.150 ON APR 03	0B ON MAR 01	34.6	1988
1989	0.122 AT 01:33 CST ON APR 06	0.045 ON APR 14	0B ON MAR 01	29.1	1989
1990	4.93 AT 04:51 CST ON JUN 19 *	3.35 ON JUN 19	0B ON MAR 01	1 090	1990
				1 030	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

KETTLE RIVER NEAR GILLAM - STATION NO. 05UF004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	---	---	11.6	6.55	3.48	3.73	---	---	---	1963
1964	---	---	---	---	35.5	13.2	3.14	2.12	11.6	8.63	4.80	3.03	---	1964
1965	---	---	---	---	39.1	19.8	11.9	4.87	8.71	13.5	9.58	7.60	---	1965
1966	3.63	1.94	0.669	0.422	39.4	29.5	12.7	6.66	4.44	4.01	2.60	1.56	9.02	1966
1967	0.678	---	---	---	---	39.3	15.6	5.31	1.18	1.79	1.78	---	---	1967
1968	---	0.425	0.387	0.301	22.7	---	---	---	---	---	7.64	5.94	---	1968
1969	1.53	0.652	0.484	2.37	4.46	13.6	11.8	8.38	42.4	29.5	8.04	5.18	10.7	1969
1970	2.04	0.870	0.600	1.14	32.3	60.7	24.6	13.8	18.5	27.8	40.0	8.88	19.3	1970
1971	3.45	1.17	0.870	24.9	41.1	43.7	45.2	34.3	15.9	15.1	14.5	8.89	20.9	1971
1972	4.24	1.27	0.465	2.15	52.2	27.8	11.8	5.08	13.2	21.1	11.3	5.52	13.1	1972
1973	1.73	1.02	0.768	0.844	30.6	16.3	4.52	0.840	0.741	4.70	6.72	5.39	6.22	1973
1974	1.93	0.859	0.726	3.85	25.7	17.8	11.5	20.3	27.3	14.7	5.52	3.22	11.2	1974
1975	2.33	0.692	0.186	2.73	29.9	21.6	9.32	11.6	21.5	24.0	10.7	3.91	11.6	1975
1976	1.98	0.904	0.893	6.17	41.4	15.9	36.6	21.8	24.9	23.2	10.6	4.16	15.8	1976
1977	2.34	1.56	1.01	21.2	31.1	15.1	6.50	2.13	10.6	19.4	13.1	5.23	10.8	1977
1978	1.30	0.919	0.746	0.865	34.4	25.3	27.3	27.6	31.6	41.9	16.6	5.76	18.0	1978
1979	2.00	0.895	0.539	0.577	18.9	44.4	29.8	11.9	7.72	11.2	7.25	3.95	11.6	1979
1980	1.74	0.973	0.838	9.69	25.5	---	---	---	52.6	31.1	9.30	5.03	---	1980
1981	3.86	2.08	1.63	1.13	50.2	26.3	10.3	9.62	4.75	21.4	11.1	3.50	12.3	1981
1982	1.56	0.758	0.632	0.610	62.6	27.4	8.24	5.21	9.93	14.1	8.83	5.57	12.2	1982
1983	3.66	2.68	2.04	1.70	28.8	112	13.9	8.63	33.5	33.6	15.2	6.49	21.8	1983
1984	3.63	2.12	1.37	16.9	55.7	29.6	6.92	1.79	1.58	4.25	3.72	2.74	10.9	1984
1985	1.77	0.948	0.558	7.09	51.2	52.4	33.9	5.54	2.04	5.71	5.70	2.69	14.2	1985
1986	1.28	0.710	0.330	0.324	84.9	36.6	42.2	44.9	28.1	16.6	6.42	3.13	22.3	1986
1987	2.00	1.66	1.53	17.1	42.3	15.5	3.04	1.37	4.33	6.03	4.14	2.26	8.47	1987
1988	1.38	0.848	0.601	0.610	62.5	47.9	14.1	5.52	4.50	4.78	4.34	2.87	12.5	1988
1989	2.87	2.32	2.09	2.17	45.4	24.9	4.93	1.24	4.45	6.98	5.07	2.95	8.84	1989
1990	1.66	1.07	0.419	0.409	16.9	27.7	11.4	2.95	6.77	6.58	4.86	3.40	7.02	1990
MEAN	2.27	1.22	0.849	5.22	38.6	32.2	16.3	10.4	14.7	15.4	9.24	4.57	13.1	MEAN

LOCATION - LAT 56 20 40 N DRAINAGE AREA, 1 090 km²
LONG 094 41 00 W NATURAL FLOW

KETTLE RIVER NEAR GILLAM - STATION NO. 05UF004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	---	---	1963
1964	---	54.7 ON MAY 08	---	---	1964
1965	---	59.5 ON MAY 10	0 ON APR 23 *	---	1965
1966	---	92.3B ON MAY 27	0 B ON DEC 12	284 000	1966
1967	---	---	---	---	1967
1968	---	---	---	---	1968
1969	---	72.5E ON SEP 15	0.345 ON APR 02	338 000	1969
1970	---	79.9 ON MAY 31	0.510 ON APR 03	609 000	1970
1971	---	63.1E ON JUL 10	0.725B ON APR 08	658 000	1971
1972	---	64.0 ON MAY 12	0.085B ON APR 07	413 000	1972
1973	49.8 AT 18:00 CST ON MAY 20	46.7 ON MAY 20	0.603 ON SEP 24	196 000	1973
1974	33.7 AT 16:15 CST ON SEP 03	33.4 ON SEP 02	0.476B ON MAR 31	353 000	1974
1975	39.1 AT 09:50 CST ON MAY 09	38.5 ON MAY 09	0.074B ON APR 09	365 000	1975
1976	63.1 AT 17:30 CST ON JUL 10	62.0 ON JUL 10	0.838B ON APR 10	500 000	1976
1977	60.3 AT 03:06 CST ON APR 25	56.4 ON APR 24	0.926B ON MAR 23	341 000	1977
1978	52.4 AT 01:44 CST ON OCT 14	50.7 ON OCT 12	0.671B ON MAR 20	567 000	1978
1979	39.9 AT 16:05 CST ON JUN 07	39.3 ON JUN 07	0.462B ON APR 05	367 000	1979
1980	---	---	---	---	1980
1981	98.8 AT 07:30 CST ON MAY 19	97.4 ON MAY 19	0.915 ON APR 23	387 000	1981
1982	105 ON MAY 08	104 ON MAY 08	0.573B ON APR 19	385 000	1982
1983	202 AT 12:00 CST ON JUN 03 *	202 ON JUN 03 *	1.47 B ON MAY 14	687 000	1983
1984	88.5 AT 00:01 CST ON MAY 19	87.0 ON MAY 19	1.08 ON SEP 06	344 000	1984
1985	77.9 AT 07:55 CST ON JUN 28	77.9 ON JUN 28	0.456B ON APR 03	448 000	1985
1986	165 AT 00:25 CST ON MAY 18	165 ON MAY 18	0.276B ON MAR 21	705 000	1986
1987	75.7 AT 22:50 CST ON APR 28	70.9 ON APR 28	1.07 ON AUG 24	267 000	1987
1988	103 AT 05:30 CST ON MAY 14	102 ON MAY 14	0.580B ON MAR 15	396 000	1988
1989	85.1 AT 23:54 CST ON MAY 21	84.4 ON MAY 21	0.511 ON AUG 24	279 000	1989
1990	40.9 AT 10:40 CST ON MAY 26	40.7 ON MAY 26	0.218B ON APR 14	221 000	1990
				414 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

KISIPACHEWUK CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	---	---	427	390	344	---	---	---	---	1971
1972	306	319	280	281	424	487	432	383	320	280	218	256	332	1972
1973	226	206	192	188	---	---	---	---	---	---	---	---	---	1973
MEAN	266	263	236	235	424	487	430	387	332	280	218	256	332	MEAN

LOCATION - LAT 54 16 00 N
LONG 098 17 00 W NATURAL FLOW

KISIPACHEWUK CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	---	---	---	1971
1972	530 AT 05:13 CST ON JUN 13 *	515 ON MAY 22 *	178E ON OCT 18 *	10 500 000	1972
1973	---	---	---	---	1973
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		10 500 000	MEAN

KRONSGART DRAIN NEAR SEWELL - STATION NO. 05OC024

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	0.029	0.003	0	0.015	0.001	0	0.002	0.001	---	---	0.012	1973
1974	---	---	0	3.26	1.02	0.006	---	---	---	---	---	---	1.06	1974
1975	---	---	0	0.158	0.038	0.056	---	---	---	---	---	---	0.062	1975
1976	---	---	0	0.713	0	0	---	---	---	---	---	---	0.175	1976
1977	---	---	0	0.037	0.002	0.011	---	---	---	---	---	---	0.012	1977
1978	---	---	0	0.390	0.002	0	0	0	0.001	---	---	---	0.096	1978
1979	---	---	0	3.87	0.406	0.005	---	---	---	---	---	---	1.06	1979
1980	---	---	0	0.233	0.005	0.002	---	---	---	---	---	---	0.059	1980
1981	---	---	0.073	0.009	0.033	0.001	---	---	---	---	---	---	0.029	1981
1982	---	---	0.019	0.433	0	0.588	---	---	---	---	---	---	0.256	1982
1983	---	---	0.001	0.499	0	0	---	---	---	---	---	---	0.123	1983
1984	---	---	0.013	0.037	0.016	0.037	---	---	---	---	---	---	0.026	1984
1985	---	---	0.599	0.058	0	0	---	---	---	---	---	---	0.167	1985
1986	---	---	0.371	0.378	0.027	0	---	---	---	---	---	---	0.194	1986
1987	---	---	0	1.04	0	0	---	---	---	---	---	---	0.257	1987
1988	---	---	0	0.122	0	0	---	---	---	---	---	---	0.030	1988
1989	---	---	0	0.623	0	0	---	---	---	---	---	---	0.153	1989
1990	---	---	0.001	0.168	0.005	0.180	---	---	---	---	---	---	0.087	1990
MEAN	---	---	0.061	0.668	0.086	0.050	0.001	0	0.002	0.001	---	---	0.214	MEAN

LOCATION - LAT 49 16 50 N
LONG 097 30 20 W NATURAL FLOW

KRONSGART DRAIN NEAR SEWELL - STATION NO. 05OC024

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	0.227 ON JUN 20	0B ON MAR 01 *	123	1973
1974	---	13.3 ON APR 19	0B ON MAR 01	11 200	1974
1975	---	1.68 ON JUN 30	0B ON MAR 01	656	1975
1976	---	8.38 B ON APR 08	0B ON MAR 01	1 850	1976
1977	---	0.385B ON APR 09	0B ON MAR 01	129	1977
1978	---	1.96 B ON APR 11	0B ON MAR 01	1 020	1978
1979	---	14.1 B ON APR 21 *	0B ON MAR 01	11 100	1979
1980	2.59 B AT 12:51 CST ON APR 06	2.16 B ON APR 06	0B ON MAR 01	621	1980
1981	0.904 AT 10:09 CST ON MAY 25	0.406 ON MAY 25	0B ON MAR 01	310	1981
1982	6.50 AT 09:39 CST ON JUN 07	5.95 ON JUN 07	0B ON MAR 01	2 700	1982
1983	3.92 B AT 13:11 CST ON APR 06	3.30 B ON APR 06	0B ON MAR 01	1 300	1983
1984	0.706 AT 02:15 CST ON JUN 23	0.541 ON JUN 23	0B ON MAR 01	271	1984
1985	5.81 B AT 08:54 CST ON MAR 22	5.13 B ON MAR 22	0B ON MAR 01	1 760	1985
1986	6.33 AT 12:46 CST ON MAR 31	5.88 B ON MAR 31	0B ON MAR 01	2 050	1986
1987	13.2 AT 04:30 CST ON APR 07 *	11.4 B ON APR 07	0B ON MAR 01	2 710	1987
1988	---	1.68 B ON APR 04	0B ON MAR 01	317	1988
1989	4.12 B AT 05:11 CST ON APR 18	3.77 B ON APR 18	0B ON MAR 01	1 620	1989
1990	1.62 AT 13:00 CST ON JUN 13	1.41 ON JUN 13	0B ON MAR 01	918	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 260	MEAN

LA SALLE RIVER AT LA SALLE - STATION NO. 05OG002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1935	---	---	---	---	0.574	0.231	1.15	0.155	0.047	0.007	---	---	---	1935
1936	---	---	---	---	2.26	0.463	0.069	0.004	---	---	---	---	---	1936
MEAN	---	---	---	---	1.42	0.347	0.610	0.080	0.047	0.007	---	---	---	MEAN

LOCATION - LAT 49 41 48 N DRAINAGE AREA, 2 390 km^2
LONG 097 15 42 W NATURAL FLOW

LA SALLE RIVER AT LA SALLE - STATION NO. 05OG002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1935	---	---	---	---	1935
1936	---	---	---	---	1936
				---	MEAN

LA SALLE RIVER NEAR ELIE - STATION NO. 05OG008

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	---	---	0	4.23	3.79	0.061	0.015	0	0	0	---	---	1.01	1979
1980	---	---	0	0.299	0.024	0.005	0.008	0.002	0.001	0.121	---	---	0.057	1980
1981	---	---	0.228	0.040	0.007	0.002	0.003	0.002	0.002	0.002	---	---	0.036	1981
1982	---	---	0.001	0.791	0.064	0.002	0.002	0.001	0	0	---	---	0.106	1982
1983	---	---	0.009	2.75	0.075	0.042	0.007	0.001	0.001	0	---	---	0.354	1983
1984	---	---	0.011	0.066	0.037	2.49	0.116	0.003	0.001	0.020	---	---	0.337	1984
1985	---	---	0.815	1.85	0.142	---	---	0.650	0.083	0.184	---	---	---	1985
1986	---	---	0.850	2.71	3.19	0.027	0.744	0.225	0.010	0.157	---	---	0.990	1986
1987	---	---	0	4.63	0.189	0.313	0.281	0.684	0.280	0.306	---	---	0.835	1987
1988	---	---	0.722	0.950	---	---	0.158	0.146	0.074	0.164	---	---	---	1988
1990	---	---	0.003	0.621	0.221	0.415	0.187	0.133	0.179	0.266	---	---	0.251	1990
MEAN	---	---	0.240	1.72	0.774	0.373	0.152	0.168	0.057	0.118	---	---	0.442	MEAN

LOCATION - LAT 49 53 13 N DRAINAGE AREA, 194 km²
LONG 097 45 54 W NATURAL FLOW

REMARKS - PUBLISHED AS "RIVIERE SALE" PRIOR TO 1979

LA SALLE RIVER NEAR ELIE - STATION NO. 05OG008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	---	17.0 ON MAY 02 *	0B ON MAR 01 *	21 300	1979
1980	---	1.01 ON APR 17	0B ON MAR 01	1 210	1980
1981	0.439 AT 09:04 CST ON MAR 31	0.427B ON MAR 12	0 ON MAY 28	762	1981
1982	2.90 AT 22:17 CST ON APR 14	2.67 ON APR 14	0B ON MAR 01	2 240	1982
1983	10.5 AT 04:28 CST ON APR 09	8.95 ON APR 09	0 ON SEP 19	7 490	1983
1984	11.0 AT 11:47 CST ON JUN 22	10.4 ON JUN 22	0B ON MAR 01	7 130	1984
1985	---	---	---	---	1985
1986	---	15.2 ON MAY 07	0B ON MAR 01	20 900	1986
1987	14.6 AT 18:31 CST ON APR 10 *	14.5 A ON APR 09	0B ON MAR 01	17 700	1987
1988	---	4.38 B ON MAR 31	---	---	1988
1990	---	2.37 B ON APR 04	0B ON MAR 01	5 320	1990
				9 340	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LA SALLE RIVER NEAR SANFORD - STATION NO. 05OG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1922	---	---	---	2.84	1.39	0.165	0.343	0.389	0.266	---	---	---	---	1922
1923	---	---	---	---	20.4	1.33	1.26	0.261	---	---	---	---	---	1923
1924	---	---	---	---	3.22	0.088	0.047	0.017	0	---	---	---	---	1924
1925	---	---	3.76	19.7	0.578	2.55	1.19	0.118	0.070	---	---	---	---	1925
1927	---	---	---	---	18.1	3.32	1.85	0.361	0.211	---	---	---	---	1927
1928	---	---	---	3.41	0.244	2.85	1.79	0.285	0.069	---	---	---	---	1928
1929	---	---	---	---	0.099	0.179	0.283	0.222	0.260	---	---	---	---	1929
1930	---	---	---	7.93	1.39	0.070	---	---	---	---	---	---	---	1930
1934	---	---	---	13.0	0.804	---	---	---	---	---	---	---	---	1934
1956	---	---	---	25.4	24.5	0.364	0.434	0.166	1.17	0.720	0.624	0.028	---	1956
1957	0.054	0.034	2.50	6.75	0.427	0.370	0.241	0.103	0.291	0.085	0.019	0	0.903	1957
1958	0	0	0.670	0.828	0.122	0.065	1.50	0.036	0.003	---	---	---	---	1958
1966	---	---	---	---	---	---	---	---	---	0	0	0	---	1966
1967	0	0	0	39.9	3.83	0	0	0	0	0.003	0	0	3.61	1967
1968	0	0	0.884	1.74	0.180	0.058	0.768	10.5	2.91	0.178	0.055	0.001	1.45	1968
1969	0	0	0	28.4	5.65	3.30	10.7	1.87	0.157	0.186	0	0	4.18	1969
1970	0	0	0	35.5	25.9	0.473	0.033	0	0	0	0	0	5.15	1970
1971	0	0	0	17.2	0.998	0.088	0.041	0	0	0	0	0	1.51	1971
1972	0	0	0.044	20.3	0.650	0.016	0.008	0	0	0	0	0	1.72	1972
1973	0	0	3.36	0.638	0.196	1.17	0.126	0.187	0	0	0	0	0.477	1973
1974	0	0	0	49.0	41.4	1.41	0	0	0	0	0	0	7.66	1974
1975	0	0	0	13.5	3.95	0.191	0.183	0	0	0	0	0	1.48	1975
1976	0	0	0.002	27.9	0.215	1.07	0.037	0.027	0.010	0.026	0.248	0.158	2.44	1976
1977	0.025	0.015	0.018	1.03	0.166	0.051	1.79	0.011	3.33	0.321	0.010	0.008	0.563	1977
1978	0.006	0.006	0.049	20.9	7.07	0.346	0.115	0.024	0.224	0.053	0.013	0.008	2.38	1978
1979	0.008	0.007	0.015	37.6	48.6	1.64	0.445	0.106	0.004	0	0.004	0	7.41	1979
1980	0	0	0.002	2.64	0	0	0	0	0	0	0.220	0	0.235	1980
1981	0	0.012	1.16	0.520	0.156	0.024	0.005	0	0	0	0.001	0.001	0.158	1981
1982	0	0	0.350	6.32	0.045	0.001	0.011	0.002	0.004	0.002	0	0	0.554	1982
1983	0	0	0.484	20.5	0.008	1.55	0.048	0	0	0	0	0	1.86	1983
1984	0	0	0.069	1.26	0.276	7.05	0.158	0.001	0.001	0.095	0.038	0.143	0.747	1984
1985	0.065	0.039	7.55	11.1	0.330	0.022	0.086	8.93	0.705	0.738	0.969	0.737	2.62	1985
1986	0.170	0.021	8.63	25.9	20.9	0.283	4.90	0.260	0.458	0.219	0.144	0.090	5.17	1986
1987	0.088	0.061	0.062	33.2	0.285	0.316	0.185	1.37	0.291	0.159	0.265	0.379	3.04	1987
1988	0.205	0.238	0.334	5.96	0.138	0.021	0.025	0.007	0.172	0.359	0.388	0.265	0.457	1988
1989	0.143	0.071	0.034	8.87	0.252	0.787	0.441	0.107	0.147	0.203	0.208	0.116	0.774	1989
1990	0.138	0.066	0.182	5.74	0.517	0.948	0.236	0.049	0.089	0.187	0.211	0.185	0.706	1990
MEAN	0.035	0.023	1.12	15.3	6.47	0.920	0.920	0.747	0.326	0.146	0.127	0.078	2.29	MEAN

LOCATION - LAT 49 40 45 N DRAINAGE AREA 1 820 km²
LONG 097 25 46 W REGULATED SINCE 1984

REMARKS - MISC. MEASUREMENTS WERE ALSO OBTAINED IN 1915, 1916, 1920, 1932, AND 1933

LA SALLE RIVER NEAR SANFORD - STATION NO. 05OG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1922	---	6.14 ON APR 10	---	---	1922
1923	---	84.4 ON APR 29	---	---	1923
1924	---	---	0 ON JUL 15 *	---	1924
1925	---	---	---	---	1925
1927	---	---	---	---	1927
1928	---	---	---	---	1928
1929	---	---	---	---	1929
1930	---	26.9 ON APR 12	0 ON MAY 01	---	1930
1934	---	50.4 ON APR 12	0 ON MAY 27	---	1934
1956	---	113 ON MAY 02	0 ON JUN 24	---	1956
1957	---	15.8 B ON APR 01	0 B ON NOV 28	28 500	1957
1958	---	5.61 ON JUL 06	0 B ON JAN 01	---	1958
1966	---	---	0 ON OCT 01	---	1966
1967	---	90.6 ON APR 22	0 B ON JAN 01	114 000	1967
1968	---	60.9 ON AUG 27	0 B ON JAN 01	46 000	1968
1969	---	106 ON APR 13	0 B ON JAN 01	132 000	1969
1970	---	125 B ON APR 28 *	0 B ON JAN 01	162 000	1970
1971	---	58.9 B ON APR 12	0 B ON JAN 01	47 600	1971
1972	---	88.6 ON APR 18	0 B ON JAN 01	54 500	1972
1973	---	10.9 B ON MAR 24	0 B ON JAN 01	15 000	1973
1974	---	123 ON APR 24	0 B ON JAN 01	241 000	1974
1975	---	53.5 ON APR 30	0 B ON JAN 01	46 500	1975
1976	---	89.5 ON APR 10	0 B ON JAN 01	77 100	1976
1977	---	16.1 ON SEP 14	0.002 ON AUG 19	17 800	1977
1978	---	58.6 ON APR 17	0.006B ON JAN 04	75 200	1978
1979	119 B AT 22:05 CST ON APR 25 *	119 B ON APR 26	0 ON AUG 26	234 000	1979
1980	9.63 AT 13:00 CST ON APR 19	9.21 ON APR 19	0 B ON JAN 01	7 430	1980
1981	---	4.62B ON MAR 28	0 B ON JAN 01	4 970	1981
1982	30.9 B AT 09:06 CST ON APR 16	30.2 B ON APR 16	0 B ON JAN 01	17 500	1982
1983	69.7 B AT 06:47 CST ON APR 08	69.1 B ON APR 08	0 B ON JAN 01	58 600	1983
1984	25.3 AT 17:09 CST ON JUN 18	25.0 ON JUN 19	0 B ON JAN 01	23 600	1984
1985	48.9 B AT 08:39 CST ON APR 05	47.3 B ON APR 04	0.002 ON JUN 16	82 600	1985
1986	108 AT 04:17 CST ON APR 02	106 ON APR 02	0.020B ON MAR 23	163 000	1986
1987	114 AT 11:15 CST ON APR 09	113 ON APR 09	0.060B ON FEB 05	95 800	1987
1988	18.1 B AT 16:45 CST ON APR 05	17.4 B ON APR 05	0 ON AUG 22	14 400	1988
1989	35.6 AT 04:53 CST ON APR 23	32.9 ON APR 23	0.003B ON MAR 24	24 400	1989
1990	15.6 B AT 11:23 CST ON APR 05	15.2 B ON APR 05	0.011 ON AUG 15	22 300	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		72 200	MEAN

LA SALLE RIVER NEAR SANFORD - STATION NO. 05OG003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	---	---	---	---	---	---	0	0	0	---	1958
1959	0	0	0.006	14.6	2.23	0.227	0.003	0.168	0.036	12.8	3.02	0.061	2.77	1959
1960	0.028	0.037	0.049	25.7	1.90	0.332	0.114	0.021	0.017	0	0	0	2.31	1960
1961	0	0	1.14	7.98	1.14	0	0	0	0	0	0	0	0.849	1961
1962	0	0	0	13.0	4.26	4.31	0.531	17.2	2.64	0.040	0.014	0	3.51	1962
1963	0	0	2.06	7.21	1.48	9.02	0.152	0.001	0	0	0	0	1.65	1963
1964	0	0	0	3.00	0.132	0.606	0.029	0.001	0.052	0.001	0	0	0.314	1964
1965	0	0	0	35.6	2.34	0.568	0	0	0.057	0	0	0	3.17	1965
1966	0	0	0.010	30.2	9.64	0	2.80	0.290	1.87	---	---	---	---	1966
MEAN	0.004	0.005	0.408	17.2	2.89	1.88	0.454	2.21	0.584	1.61	0.379	0.008	2.08	MEAN

LOCATION - LAT 49 39 00 N DRAINAGE AREA, 2 110 km^2
LONG 097 23 00 W NATURAL FLOW

REMARKS - PUBLISHED AS "RIVIERE SALE" PRIOR TO 1979

LA SALLE RIVER NEAR SANFORD - STATION NO. 05OG003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	---	0 ON OCT 01 *	---	1958
1959	---	49.6B ON APR 08	0B ON JAN 01	87 400	1959
1960	---	75.9 ON APR 13	0 ON JUL 20	73 100	1960
1961	---	23.9B ON APR 11	0B ON JAN 01	26 800	1961
1962	---	71.1B ON APR 26	0 ON JAN 01	111 000	1962
1963	---	54.7 ON JUN 06	0B ON JAN 01	51 900	1963
1964	---	15.0B ON APR 16	0 ON JAN 01	9 930	1964
1965	---	115 B ON APR 16 *	0B ON JAN 01	100 000	1965
1966	---	88.9B ON APR 14	0B ON JAN 01	---	1966
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		65 700	MEAN

LAURIE RIVER BELOW LAURIE RIVER HYDRO PLANT - STATION NO. 06EB005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	27.7	34.8	28.3	35.0	37.1	24.1	30.6	30.4	37.7	36.1	34.0	28.8	32.0	1978
1979	30.6	---	---	---	33.2	36.1	27.2	25.1	25.0	23.7	24.2	19.4	---	1979
1980	17.6	18.7	19.7	24.3	28.1	13.9	11.8	19.5	---	---	28.9	25.4	---	1980
1981	27.3	31.0	27.4	25.5	29.4	19.4	14.8	15.8	12.6	15.8	17.1	18.6	20.9	1981
1982	17.7	14.3	16.9	19.6	35.8	40.3	34.7	33.3	24.6	16.7	21.9	21.4	24.8	1982
MEAN	24.2	24.7	23.1	26.1	32.7	26.8	23.8	24.2	25.0	23.1	25.2	22.7	25.9	MEAN

LOCATION - LAT 56 13 43 N LONG 101 00 12 W DRAINAGE AREA, 3 840 km²
REGULATED SINCE 1951

LAURIE RIVER BELOW LAURIE RIVER HYDRO PLANT - STATION NO. 06EB005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	42.5 AT 08:10 CST ON MAY 16	41.6 ON MAY 15	1.42E ON JUN 01 *	1 010 000	1978
1979	---	---	---	---	1979
1980	---	---	---	---	1980
1981	37.3 AT 08:00 CST ON MAY 24	37.2 ON MAY 24	11.0 ON JUN 26	---	1981
1982	74.9 AT 16:40 CST ON AUG 20 *	71.1 ON AUG 21 *	10.4 ON AUG 05	660 000	1982
			10.1 ON FEB 22	783 000	MEAN
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		818 000	

LIMESTONE RIVER NEAR BIRD - STATION NO. 05UG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	---	---	25.9	13.7	19.2	19.3	8.79	5.63	---	1963
1964	3.66	2.56	1.69	1.04	9.08	16.2	11.9	9.24	20.4	13.9	---	---	---	1964
1965	---	---	---	---	---	39.4	23.6	14.5	22.3	23.1	---	---	---	1965
1966	---	---	---	---	---	60.0	20.2	11.1	8.69	7.09	---	---	---	1966
1967	---	---	---	---	---	66.1	31.3	13.8	5.99	8.23	---	---	---	1967
1970	---	---	---	---	---	---	---	---	---	---	---	16.7	---	1970
1971	8.75	3.77	3.49	32.0	79.9	89.2	108	69.3	26.9	21.3	16.5	12.0	39.5	1971
1972	7.60	4.74	2.63	5.03	88.7	38.2	25.6	12.2	40.8	27.0	12.0	6.26	22.6	1972
1973	5.42	6.27	4.23	1.56	62.1	18.4	8.85	7.72	2.09	10.4	6.54	3.65	11.1	1973
1974	2.25	1.34	1.39	10.1	---	27.2	10.8	25.1	30.6	16.9	11.4	6.60	---	1974
1975	---	---	---	---	---	---	---	---	---	31.7	9.54	5.66	---	1975
1976	4.41	3.52	2.72	13.4	106	34.2	30.0	19.1	18.3	40.3	13.4	6.70	24.5	1976
1977	4.95	3.69	2.56	69.8	56.7	26.5	17.8	6.01	19.3	15.0	9.17	4.85	19.7	1977
1978	2.21	1.34	0.950	0.987	78.3	26.4	48.4	61.0	63.7	49.4	15.9	6.61	29.9	1978
1979	2.90	1.44	0.814	1.07	36.0	62.1	56.4	26.2	23.4	30.9	10.0	5.55	21.5	1979
1980	3.32	2.25	1.63	33.9	---	---	---	---	---	---	8.28	5.69	---	1980
1981	3.94	3.05	2.96	2.85	83.9	37.9	24.0	22.3	10.9	29.0	9.69	3.55	19.7	1981
1982	2.52	2.09	1.74	1.68	124	67.8	24.8	10.0	15.1	19.6	7.49	5.10	23.7	1982
1983	4.04	3.38	2.83	2.47	56.7	154	23.5	38.8	69.1	33.6	19.3	9.06	34.7	1983
1984	4.75	2.12	0.595	66.6	98.8	42.6	14.3	6.66	8.47	9.62	5.22	3.23	21.9	1984
1985	1.91	1.28	1.03	32.3	91.6	56.2	25.4	7.22	3.69	6.84	7.49	4.58	20.0	1985
1986	2.54	1.82	1.55	1.72	107	41.7	57.0	53.7	26.8	14.7	4.79	3.18	26.6	1986
1987	2.88	2.57	1.99	44.2	41.5	21.5	10.6	5.89	15.8	15.5	10.1	4.62	15.6	1987
1988	2.39	1.18	0.873	1.32	144	48.5	34.2	18.4	15.2	13.0	10.4	4.89	24.7	1988
1989	2.46	1.70	1.77	2.32	104	33.6	31.6	8.66	15.7	13.9	10.6	3.21	19.3	1989
1990	1.54	0.989	0.908	1.05	45.0	47.5	17.1	7.03	13.2	9.64	5.25	3.50	12.8	1990
MEAN	3.72	2.54	2.01	16.3	78.5	48.0	29.6	20.1	22.0	20.0	10.0	5.95	22.8	MEAN

LOCATION - LAT 56 31 10 N LONG 094 12 20 W DRAINAGE AREA, 3 290 km² NATURAL FLOW

LIMESTONE RIVER NEAR BIRD - STATION NO. 05UG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	---	---	1963
1964	---	29.2 ON SEP 12	---	---	1964
1965	---	---	---	---	1965
1966	---	---	---	---	1966
1967	---	289 B ON MAY 24	---	---	1967
1970	---	---	---	---	1970
1971	185 AT 15:51 CST ON JUL 09	180 ON JUN 01	1.93 B ON APR 11	1 250 000	1971
1972	---	149 B ON MAY 11	1.92 B ON APR 24	716 000	1972
1973	---	120 B ON MAY 14	0.099B ON APR 17 *	350 000	1973
1974	---	---	1.20 B ON FEB 24	---	1974
1975	---	---	---	---	1975
1976	---	162 ON MAY 11	2.12 B ON APR 08	774 000	1976
1977	---	163 ON APR 23	2.04 B ON MAR 31	621 000	1977
1978	---	161 E ON MAY 15	0.876B ON MAR 21	942 000	1978
1979	124 AT 13:26 CST ON JUL 17	121 ON JUL 17	0.651B ON MAR 29	679 000	1979
1980	---	---	---	---	1980
1981	209B AT 08:15 CST ON MAY 21	208 B ON MAY 21	2.77 B ON DEC 31	620 000	1981
1982	---	356 B ON MAY 03	1.54 B ON APR 09	748 000	1982
1983	---	438 ON MAY 31 *	2.27 B ON MAY 17	1 090 000	1983
1984	362 AT 05:50 CST ON APR 23 *	303 ON APR 30	0.226B ON APR 01	693 000	1984
1985	---	243 B ON APR 30	0.938B ON APR 06	632 000	1985
1986	---	273 E ON MAY 15	1.35 B ON FEB 19	840 000	1986
1987	142 AT 00:30 CST ON APR 28	134 ON APR 28	1.80 B ON APR 02	492 000	1987
1988	---	317 B ON MAY 09	0.860B ON MAR 06	782 000	1988
1989	---	324 B ON MAY 13	1.59 B ON FEB 23	609 000	1989
1990	159 AT 02:10 CST ON MAY 23	144 ON MAY 22	0.860B ON FEB 28	403 000	1990
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		720 000	MEAN

LITTLE BEAVER RIVER NEAR THE MOUTH - STATION NO. 06FB002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	6.36	3.68	2.46	---	---	---	79.7	51.7	119	44.2	22.6	13.4	---	1972
1973	7.26	4.72	4.05	5.00	101	---	---	---	---	17.3	11.1	5.51	---	1973
1974	3.27	2.08	1.28	2.90	43.7	30.9	20.2	37.2	22.8	14.9	7.78R	6.32 R	16.2 R	1974
1975	5.09 R	3.08 R	2.02 R	8.24 R	82.3	66.8	35.9	29.6	28.3	34.4	20.2	12.2	27.5 R	1975
1976	7.24	4.48	3.42 R	3.63 R	60.0R	51.3	24.7	12.0	23.1	49.1	17.7	9.41	22.2 R	1976
1977	5.34	3.92	3.24	27.8	112	44.0	34.4	20.8	46.0	22.6	13.8	7.67	28.6	1977
1978	3.93	2.52	2.03	1.91	48.6	63.6	45.2	107	88.7	59.4	25.4	11.0	38.5	1978
1979	5.29	3.13	1.95	1.45	47.8R	89.4	35.5	26.5	38.3	39.8	14.0	7.55	26.0 R	1979
1980	3.90	2.39	1.66	21.8	70.9	83.5	47.9	93.3	100	37.6	9.71	6.79	40.3	1980
1981	5.23	4.23	3.59	1.00	89.3	69.0	24.5	11.7	19.9	26.5	10.8	4.26	21.7	1981
1982	1.76	0.590	0.434	3.26	90.8	109	47.1	21.4	15.7	25.1	11.4	7.39	29.5	1982
1983	5.55	4.44	3.79	3.28	16.6	205	37.6	49.5	168	68.4	29.7	14.6	50.2	1983
1984	9.57	6.08	3.53	52.4	136	84.8	18.2	7.58	10.2	10.8	7.08	3.66	29.2	1984
1985	1.74	1.55	1.45	2.39	138	56.8	23.4	7.69	5.43	6.34	2.10	0.826	20.9	1985
1986	0.548	0.394	0.223	0.096	151	139	130	46.8	26.5	13.5	6.26	2.98	43.5	1986
1987	1.71	1.48	1.63	16.3	82.8	73.8	43.9	14.6	62.8	28.3	13.7	4.27	29.1	1987
1988	2.87	1.12	1.00	1.02	98.9	92.0	22.3	46.2	23.3	11.5	9.18	5.87	26.3	1988
1989	2.47	1.93	1.51	1.24	121	96.0	39.3	22.2	33.1	19.5	8.91	2.43	29.3	1989
1990	---	---	---	---	---	103	47.8	28.5	21.7	19.7	11.0	7.04	---	1990
MEAN	4.40 R	2.88 R	2.18 R	9.28 R	87.7R	85.5	42.1	35.2	48.0	28.9	13.3 R	7.17 R	29.9 R	MEAN

LOCATION - LAT 57 39 10 N LONG 095 39 50 W DRAINAGE AREA, 4 250 km^2 NATURAL FLOW R - REVISED SINCE JAN 01 1989

LITTLE BEAVER RIVER NEAR THE MOUTH - STATION NO. 06FB002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	203 AT 21:55 CST ON SEP 02	200 ON SEP 03	---	---	1972
1973	217 AT 01:30 CST ON MAY 15	199 ON MAY 15	3.34 B ON APR 07	---	1973
1974	68.8 AT 17:30 CST ON MAY 14	63.7 ON MAY 13	0.765B ON APR 12	511 000	1974
1975	---	119 B ON MAY 08	0.680B ON APR 01	867 000	1975
1976	---	132 A ON MAY 19	3.23 B ON APR 01	704 000	1976
1977	---	154 B ON MAY 03	3.11 B ON MAR 25	902 000	1977
1978	187 AT 16:57 CST ON AUG 15	186 ON AUG 15	1.87 B ON APR 06	1 210 000	1978
1979	---	123 B ON MAY 26	1.35 B ON APR 17	819 000	1979
1980	240 AT 21:00 CST ON AUG 24	239 ON AUG 24	1.41 B ON APR 07	1 280 000	1980
1981	246 AT 13:00 CST ON MAY 21	244 ON MAY 21	2.63 B ON APR 30	686 000	1981
1982	155 AT 15:00 CST ON JUN 01	155 ON JUN 01	0.364B ON APR 08	929 000	1982
1983	406 AT 21:29 CST ON JUN 01 *	393 ON JUN 02	2.85 B ON MAY 20	1 580 000	1983
1984	276 AT 19:55 CST ON MAY 18	265 ON MAY 19	1.87 B ON APR 08	924 000	1984
1985	215 ON MAY 09	209 ON MAY 09	0.624B ON DEC 31	658 000	1985
1986	---	410 E ON MAY 20 *	0.066B ON APR 13 *	1 370 000	1986
1987	135 AT 09:40 CST ON JUN 26	134 ON JUN 26	1.47 B ON FEB 06	918 000	1987
1988	198 AT 20:06 CST ON MAY 22	193 ON MAY 22	1.00 B ON FEB 27	833 000	1988
1989	260 AT 19:50 CST ON MAY 15	256 ON MAY 16	1.18 B ON APR 29	923 000	1989
1990	172 AT 00:30 CST ON JUN 15	169 ON JUN 15	---	---	1990
	A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		945 000	MEAN

LITTLE CHURCHILL RIVER ABOVE RECLUSE LAKE - STATION NO. 06FC001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	---	23.7	16.9	15.5	13.1	8.80	---	1967
1968	5.41	4.31	6.06	6.88	89.3	106	63.4	29.3	26.4	40.3	25.6	16.2	35.0	1968
1969	11.4	9.58	8.12	8.43	10.4	101	69.4	42.8	97.7	77.9	41.4	26.7 R	42.1 R	1969
1970	20.8 R	17.1	12.9	10.7	49.0	109	58.6	40.2	41.6	55.8	85.9	38.6	45.1 R	1970
1971	28.4	21.2	15.6	22.3	108	108	177	103	64.4	58.3	46.4	26.8	65.6	1971
1972	21.4	19.0	15.0	13.2	89.1	63.0	53.2	35.6	64.0	51.2	31.3	21.9	40.1	1972
1973	16.0	12.7	11.5	12.8	68.3	38.9	25.3	15.6	29.1	34.2	23.0	10.0	21.5	1973
1974	8.20	7.35	7.10	11.2	29.4	33.7	28.1	35.6	27.8	23.9	17.5	14.5	20.5	1974
1975	12.4	10.5	9.06	9.65	---	---	47.4	49.4	55.5	56.2	40.4	27.3	---	1975
1976	19.6	15.3	13.7	17.6	100	68.0	79.3	60.4	45.5	56.3	27.4	18.6	43.7	1976
1977	14.7	12.6	11.5	48.0	89.4	65.6	60.7	38.0	41.5	36.3	29.1	19.5	39.0	1977
1978	13.2	10.9	9.26	8.46	59.5	38.2	58.0	102	97.5	104	56.1	31.6	51.0	1978
1979	16.8 R	13.9	10.8	9.00	73.3	115	74.8	44.6	44.7	56.7	34.7	21.7	43.3 R	1979
1980	14.1	11.9	11.0	21.7	40.5	56.5	82.3	132	140	93.6	46.0	26.1	56.5	1980
1981	20.7	16.8	13.9	12.6	72.9	61.3	57.6	30.7	19.7	31.2	22.4	11.7	29.4	1981
1982	9.04	7.40	6.24	5.96	97.3	101	54.9	47.5	59.5	57.6	34.7	21.2	42.0	1982
1983	16.0	13.6	12.3	11.6	12.0	---	60.4	29.3	87.2	75.8	44.9	27.6	---	1983
1984	21.0	16.5	12.9	---	---	---	39.6	27.3	23.8	24.3	14.7	9.85	---	1984
1985	8.55	8.28	8.12	15.8	129	91.6	78.2	44.4	30.1	27.8	15.3	8.10	39.0	1985
1986	6.20	5.90	5.65	5.42	126	118	157	123	93.5	65.2	31.1	17.6	63.3	1986
1988	18.1	16.5	12.3	9.69	113	101	78.0	59.5	41.3	26.3	26.5	19.4	43.5	1988
1989	15.6	14.9	11.1	9.17	102	88.9	64.4	29.5	20.0	14.5	10.1	7.93	32.5	1989
1990	---	---	---	---	---	---	80.4	45.6	24.6	30.5	28.2	24.1	20.9	---	1990
MEAN	15.3 R	12.8	10.7	13.5	76.7	82.4	67.9	51.8	51.5	47.6	31.8	19.8 R	41.8 R	MEAN

LOCATION - LAT 56 56 12 N LONG 095 45 47 W DRAINAGE AREA, 5 810 km² NATURAL FLOW

R - REVISED SINCE JAN 01 1989

LITTLE CHURCHILL RIVER ABOVE RECLUSE LAKE - STATION NO. 06FC001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	---	---	---	1967
1968	---	188 B ON MAY 18	4.05B ON FEB 14 *	1 110 000	1968
1969	---	193 ON JUN 25	7.22B ON APR 12	1 330 000	1969
1970	---	173 ON JUN 02	9.83B ON APR 19	1 420 000	1970
1971	255 AT 20:09 CST ON JUL 10 *	252 ON JUL 11	11.3 B ON APR 10	1 970 000	1971
1972	---	112 ON MAY 14	11.9 B ON APR 24	1 270 000	1972
1973	123 AT 12:30 CST ON MAY 14	114 ON MAY 14	8.21B ON DEC 31	678 000	1973
1974	47.6 AT 19:00 CST ON AUG 01	47.0 ON AUG 01	6.80B ON APR 17	645 000	1974
1975	---	---	---	---	1975
1976	143 B AT 21:20 CST ON APR 12	140 ON MAY 12	13.4 B ON MAR 29	1 380 000	1976
1977	---	143 B ON APR 26	11.2 B ON APR 04	1 230 000	1977
1978	157 AT 15:02 CST ON AUG 20	155 ON AUG 20	8.30B ON APR 11	1 610 000	1978
1979	---	170 B ON MAY 25	8.50B ON APR 19	1 370 000	1979
1980	---	244 ON AUG 26	10.5 B ON APR 05	1 790 000	1980
1981	---	131 B ON MAY 22	9.92B ON DEC 31	927 000	1981
1982	145 AT 18:00 CST ON JUN 09	142 ON JUN 10	5.12B ON APR 20	1 330 000	1982
1983	---	---	11.1 B ON MAY 19	---	1983
1984	---	---	9.12B ON DEC 31	---	1984
1985	200 AT 18:29 CST ON MAY 04	196 ON MAY 04	6.67B ON DEC 31	1 230 000	1985
1986	---	291 B ON MAY 16 *	5.36B ON APR 13	2 000 000	1986
1988	171 AT 15:53 CST ON MAY 12	171 ON MAY 12	8.18 ON APR 19	1 380 000	1988
1989	173 AT 06:26 CST ON MAY 25	173 A ON MAY 15	6.59A ON DEC 29	1 020 000	1989
1990	103 AT 14:15 CST ON JUN 15	103 ON JUN 16	---	---	1990
				1 320 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SASKATCHEWAN RIVER AT ELPHINSTONE - STATION NO. 05MF005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	0.450	0.930	1.63	0.830	1.09	1.52	0.843	0.142	---	1915
1916	0.057	0.057	0.113	3.40	4.22	7.76	12.7	3.83	2.26	2.41	1.11	0.566	3.23	1916
1917	0.419	0.338	0.473	3.06	7.58	3.19	3.62	1.20	0.693	0.580	0.325	---	---	1917
1918	---	---	---	0.430	1.28	1.46	0.814	0.608	0.567	---	---	---	---	1918
1919	---	---	---	---	2.88	1.18	2.14	0.539	0.474	0.715	0.375	0.033	---	1919
1920	---	---	---	---	10.7	3.48	0.711	0.209	0.326	0.404	---	---	---	1920
1921	---	---	---	---	4.72	2.93	0.862	0.618	1.00	1.01	0.817	---	---	1921
1922	---	---	---	1.33	4.47	3.22	3.15	2.00	1.62	0.938	---	---	---	1922
MEAN	0.238	0.198	0.293	2.06	4.54	3.02	3.20	1.23	1.01	1.08	0.738	0.247	3.23	MEAN

LOCATION - LAT 50 31 55 N LONG 100 17 40 W DRAINAGE AREA, 1 170 km² NATURAL FLOW

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER AT ELPHINSTONE - STATION NO. 05MF005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	---	---	---	1915
1916	---	22.9 ON JUL 03 *	0.057B ON JAN 01 *	102 000	1916
1917	---	10.2 ON MAY 08	---	---	1917
1918	---	2.38 ON APR 26	---	---	1918
1919	---	---	---	---	1919
1920	---	15.6 ON MAY 15	---	---	1920
1921	---	---	---	---	1921
1922	---	5.86 ON MAY 27	---	---	1922
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		102 000	MEAN

LITTLE SASKATCHEWAN RIVER AT MIDDLETON BRIDGE - STATION NO. 05MF004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	---	0.391	0.742	0.631	0.440	0.462	0.248	---	---	1915
1916	---	---	---	1.99	1.19	4.08	8.91	3.63	1.03	1.10	0.700	---	---	1916
MEAN	---	---	---	1.99	1.19	2.24	4.83	2.13	0.735	0.781	0.474	---	---	MEAN

LOCATION - LAT 50 41 40 N LONG 100 14 45 W DRAINAGE AREA, 668 km^2 NATURAL FLOW

LITTLE SASKATCHEWAN RIVER AT MIDDLETON BRIDGE - STATION NO. 05MF004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	---	---	---	1915
1916	---	---	---	---	1916
				---	MEAN

LITTLE SASKATCHEWAN RIVER AT RIVERDALE - STATION NO. 05MF003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	1.42	1.70	1.70	29.3	14.8	9.21	10.5	6.43	1.54	1.83	1.42	0.566	6.70	1913
1914	0.566	0.566	0.566	26.5	---	---	---	---	---	---	---	---	---	1914
MEAN	0.993	1.13	1.13	27.9	14.8	9.21	10.5	6.43	1.54	1.83	1.42	0.566	6.70	MEAN

LOCATION - LAT 50 11 25 N LONG 099 58 00 W DRAINAGE AREA, 3 170 km^2 REGULATED

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER AT RIVERDALE - STATION NO. 05MF003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	57.8 ON APR 12 *	0.283 ON SEP 12 *	211 000	1913
1914	---	---	---	---	1914
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		211 000	MEAN

LITTLE SASKATCHEWAN RIVER NEAR MINNEDOSA - STATION NO. 05MF001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	24.1	14.7	5.46	1.42	1.13	1.05	0.939	0.802	0.380	---	1914
1915	0.001	0.001	0.057	2.69	1.59	2.21	1.97	0.531	0.770	2.33	1.14	0.227	1.13	1915
1916	0.425	0.340	0.227	9.91	8.59	11.5	14.9	3.99	1.94	2.15	1.70	0.850	4.72	1916
1917	0.412	0.474	0.839	5.71	12.6	4.34	1.50	1.34	0.811	0.595	0.942	0.242	2.67	1917
1918	0.073	0.101	1.60	6.26	2.70	3.14	1.04	0.807	1.29	0.880	0.595	0.298	1.56	1918
1919	0.296	0.280	0.325	8.78	6.42	2.34	3.16	1.57	1.90	2.05	0.782	0.290	2.35	1919
1920	0.038	0.050	0.202	5.76	16.4	6.95	2.11	0.575	1.55	1.55	1.01	0.785	3.09	1920
1921	0.352	0.213	0.379	4.89	12.0	6.95	2.00	1.25	3.29	2.84	1.80	1.06	3.17	1921
1922	0.387	0.124	0.311	6.79	11.7	6.57	5.12	4.49	2.14	1.51	1.93	1.38	3.56	1922
1923	0.879	0.354	0.406	13.1	43.0	20.9	15.0	6.90	4.40	2.84	1.61	1.06	9.26	1923
1924	0.358	0.182	0.449	3.92	22.8	9.89	8.44	3.82	1.70	3.87	2.80	1.30	4.99	1924
1925	0.871	0.759	0.991	23.1	12.8	16.2	15.4	4.25	2.12	3.54	2.54	1.07	6.97	1925
1926	0.718	0.480	1.27	7.77	5.78	4.08	1.93	0.980	5.32	6.41	4.11	1.98	3.40	1926
1927	1.40	0.689	0.684	23.0	49.3	27.6	17.5	10.4	6.57	4.09	---	---	---	1927
1928	---	---	---	11.3	10.1	18.0	13.0	5.97	2.85	1.92	1.05	0.680	---	1928
1929	0.595	0.425	0.850	2.88	5.21	4.55	1.19	0.378	0.327	0.499	---	---	---	1929
1930	---	---	---	---	5.34	3.08	0.967	0.180	0.072	---	---	---	---	1930
1959	---	---	0	2.46	7.04	3.15	1.30	0.408	0.475	2.95	---	---	---	1959
1960	---	---	0.057	12.0	19.1	12.3	2.17	0.520	0.380	0.332	---	---	---	1960
1961	---	---	0.371	2.18	2.63	0.598	0.199	0.066	0.052	0.102	---	---	---	1961
1962	---	---	0	1.80	0.803	1.99	0.489	0.583	0.695	0.320	---	---	---	1962
1963	---	---	1.29	11.5	5.85	6.87	3.67	1.17	1.01	1.06	---	---	---	1963
1964	---	---	0.192	5.99	11.1	1.40	1.14	0.500	0.219	0.369	---	---	---	1964
1965	---	---	0.008	4.01	15.5	9.13	2.71	1.39	8.67	4.53	---	---	---	1965
1966	---	---	0.590	9.18	15.8	6.71	2.20	3.48	1.14	0.666	---	---	---	1966
1967	---	---	0.496	12.1	20.1	6.54	1.64	0.728	0.162	0.349	---	---	---	1967
1968	---	---	1.65	6.41	3.89	2.40	2.16	5.79	3.90	1.35	---	---	---	1968
1969	---	---	0.474	16.5	8.38	4.06	16.2	3.53	2.23	1.72	---	---	---	1969
1970	---	---	0.671	6.07	45.0	16.5	7.10	4.31	1.88	2.40	---	---	---	1970
1971	---	---	0.813	13.2	9.11	20.5	10.2	5.54	2.13	5.19	---	---	---	1971
1972	1.44	1.52	1.38	13.7	22.1	5.20	1.50	1.56	1.08	0.630	0.644	0.256	4.26	1972
1973	0.128	0.101	0.885	2.21	1.80	3.17	1.18	1.14	2.25	4.44	1.69	1.34	1.73	1973
1974	0.505	0.846	1.40	14.4	33.5	15.0	2.29	0.687	0.589	0.616	0.578	0.530	5.94	1974
1975	0.383	0.338	0.395	5.12	17.0	8.72	4.09	4.08	26.3	19.3	7.58	3.70	8.11	1975
1976	2.90	2.63	2.25	32.4	16.5	12.7	7.78	1.49	0.520	0.413	0.402	0.243	6.66	1976
1977	0.343	0.670	1.21	4.48	3.48	1.28	3.71	1.53	2.44	3.68	1.53	1.23	2.14	1977
1978	0.930	0.779	0.829	7.91	9.49	2.90	1.30	0.441	0.807	1.14	1.18	0.658	2.37	1978
1979	0.449	0.317	0.473	13.9	33.5	17.4	3.38	0.796	0.412	0.314	0.459	0.432	6.01	1979
1980	0.304	0.223	0.348	5.09	2.05	0.367	0.632	2.45	3.24	1.90	1.87	1.46	1.66	1980
1981	0.645	0.263	1.08	5.13	4.18	3.75	1.57	0.429	0.221	0.872	2.00	0.648	1.73	1981
1982	0.241	0.484	0.322	11.0	7.64	2.31	1.38	1.04	0.205	1.84	1.34	0.212	2.33	1982
1983	0.320	0.240	0.715	11.8	15.4	6.41	3.84	1.19	0.094	0.292	0.252	0.147	3.40	1983
1984	0.105	0.121	0.619	3.58	5.14	3.46	1.67	0.156	0.076	1.03	1.19	0.670	1.49	1984
1985	0.383	0.310	0.310	9.26	5.26	2.49	1.43	3.53	3.31	4.67	2.17	0.771	2.83	1985
1986	0.675	0.639	1.67	19.1	28.6	6.12	2.97	2.24	1.02	2.73	1.57	1.34	5.78	1986
1987	1.26	1.12	1.79	22.0	7.49	2.32	1.23	0.608	0.214	0.684	0.712	0.522	3.32	1987
1988	0.199	0.140	0.486	6.74	11.9	1.67	0.549	0.200	0.179	0.250	0.347	0.198	1.91	1988
1989	0.105	0.086	0.073	1.91	1.37	3.42	1.55	0.259	0.233	0.192	0.386	0.260	0.819	1989
1990	0.253	0.259	0.504	8.86	16.8	7.60	3.22	0.742	0.153	0.164	0.297	0.246	3.28	1990
MEAN	0.557	0.471	0.694	9.64	13.2	7.19	4.19	2.07	2.14	2.18	1.49	0.802	3.63	MEAN

LOCATION - LAT 50 21 28 N DRAINAGE AREA, 2 630 km²
LONG 099 54 00 W NATURAL FLOW

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER NEAR MINNEDOSA - STATION NO. 05MF001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	7.08 ON APR 12	0 B ON JAN 01 *	35 600	1915
1916	---	25.2 ON JUL 01	0.227B ON MAR 01	149 000	1916
1917	---	21.1 ON MAY 02	0.085B ON DEC 26	84 100	1917
1918	---	8.47 ON APR 04	0.057B ON JAN 06	49 300	1918
1919	---	11.8 ON APR 11	0.113B ON DEC 31	74 200	1919
1920	---	20.4 ON MAY 18	0 B ON JAN 21	97 800	1920
1921	---	16.0 ON MAY 29	0.170B ON JAN 24	100 000	1921
1922	---	14.0 ON MAY 20	0.085B ON FEB 12	112 000	1922
1923	---	83.5 ON MAY 05	0.255B ON FEB 17	292 000	1923
1924	---	36.2 ON MAY 02	0.113B ON MAR 06	158 000	1924
1925	---	27.9 ON APR 12	0.595B ON MAR 04	220 000	1925
1926	---	10.4 E ON APR 19	0.450B ON FEB 10	107 000	1926
1927	---	82.4 ON MAY 06	---	---	1927
1928	---	36.2 ON JUN 24	---	---	1928
1929	---	7.56 ON APR 29	---	---	1929
1930	---	---	---	---	1930
1959	---	9.66 ON MAY 11	0 B ON MAR 01	---	1959
1960	---	26.1 ON APR 28	0.057B ON MAR 01	---	1960
1961	---	3.88 ON APR 26	0.025 ON AUG 19	---	1961
1962	---	5.52B ON APR 21	0 B ON MAR 01	---	1962
1963	---	14.9 B ON APR 03	0 B ON MAR 01	---	1963
1964	---	17.6 ON MAY 09	0.091 ON SEP 14	---	1964
1965	---	30.0 ON MAY 06	0.008B ON MAR 01	---	1965
1966	---	19.2 ON MAY 12	0.331 ON SEP 30	---	1966
1967	---	27.4 B ON APR 16	0.127 ON SEP 09	---	1967
1968	---	8.67 ON APR 25	0.340 ON JUN 29	---	1968
1969	---	36.0 ON APR 15	0.450B ON APR 07	---	1969
1970	91.2 AT 02:15 CST ON MAY 12 *	90.3 ON MAY 12 *	0.371 ON SEP 11	---	1970
1971	33.4 AT 02:52 CST ON JUN 20	32.8 ON JUN 20	0.779B ON MAR 25	---	1971
1972	33.7 AT 05:48 CST ON MAY 03	33.4 ON MAY 03	0.176B ON DEC 31	135 000	1972
1973	---	6.60A ON JUN 26	0.045 ON JUL 23	54 400	1973
1974	43.0 AT 10:47 CST ON MAY 03	43.0 ON MAY 03	0.402 ON SEP 15	187 000	1974
1975	62.3 AT 08:40 CST ON SEP 27	59.7 ON SEP 27	0.323B ON FEB 11	256 000	1975
1976	59.7 AT 17:58 CST ON APR 19	59.2 ON APR 19	0.130B ON DEC 09	210 000	1976
1977	13.8 B AT 17:30 CST ON APR 16	11.8 B ON APR 16	0.215B ON JAN 14	67 600	1977
1978	17.0 AT 06:34 CST ON MAY 04	16.9 ON MAY 03	0.176 ON AUG 31	74 700	1978
1979	50.6 AT 04:20 CST ON MAY 24	49.5 ON MAY 24	0.137 ON OCT 07	190 000	1979
1980	10.0 B AT 09:24 CST ON APR 12	7.41B ON APR 12	0.183 ON JUN 25	52 500	1980
1981	9.92 AT 19:59 CST ON APR 08	8.28 ON APR 09	0.081 ON SEP 20	54 600	1981
1982	22.6 B AT 17:19 CST ON APR 22	21.5 B ON APR 22	0.005B ON MAR 21	73 500	1982
1983	41.1 AT 22:34 CST ON APR 27	40.4 ON APR 27	0.024 ON SEP 25	107 000	1983
1984	7.94 AT 21:51 CST ON JUN 29	7.86 ON JUN 29	0.035B ON JAN 14	47 000	1984
1985	16.7 AT 01:24 CST ON APR 22	16.3 ON APR 22	0.149B ON MAR 30	89 200	1985
1986	53.5 AT 17:33 CST ON MAY 12	52.0 ON MAY 13	0.221 ON SEP 13	182 000	1986
1987	32.9 AT 15:22 CST ON APR 12	31.5 ON APR 12	0.069 ON SEP 16	105 000	1987
1988	25.6 B AT 18:32 CST ON APR 10	23.8 ON MAY 13	0.074 ON AUG 25	60 400	1988
1989	8.97 AT 07:31 CST ON JUN 20	8.78 ON JUN 20	0.057B ON FEB 28	25 800	1989
1990	26.0 AT 07:15 CST ON APR 28	25.9 ON APR 28	0.087 ON SEP 18	183 000	1990
				115 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SASKATCHEWAN RIVER NEAR RAPID CITY - STATION NO. 05MF021

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.256	2.05	3.13	0.715	0.167	0	0.017	0.048	---	---	0.797	1961
1962	---	---	0.004	6.30	1.67	4.10	0.679	0.637	0.702	0.519	---	---	1.56	1962
1963	---	---	1.30	14.5	7.11	7.62	3.64	1.20	1.44	2.02	---	---	4.82	1963
1964	---	---	0.113	5.86	11.4	1.77	1.11	0.651	0.475	0.472	---	---	2.74	1964
1965	---	---	0.227	9.75	22.6	14.8	6.64	1.92	8.49	5.26	---	---	8.68	1965
1966	---	---	2.14	13.0	17.5	7.84	2.66	3.94	1.55	0.823	---	---	6.16	1966
1967	---	---	0.263	19.4	22.1	8.24	2.52	0.981	0.218	0.397	---	---	6.73	1967
1968	---	---	3.06	7.46	5.17	3.56	2.01	7.04	5.61	1.73	---	---	4.44	1968
1969	---	---	0.404	32.6	12.3	4.85	20.6	4.90	2.36	2.45	---	---	10.0	1969
1970	---	---	0.906	17.3	56.2	19.8	8.67	4.13	1.83	2.59	---	---	13.9	1970
1971	---	---	0.783	13.2	10.5	26.8	15.0	6.71	2.47	4.81	---	---	9.98	1971
1972	---	---	1.63	21.3	28.7	5.24	1.93	0.716	0.313	1.25	---	---	7.62	1972
1973	---	---	1.27	2.27	2.04	2.57	1.55	1.13	2.21	4.26	---	---	2.16	1973
1974	---	---	0.839	23.6	38.8	20.8	2.88	0.762	0.569	0.484	---	---	11.0	1974
1975	---	---	0.334	8.99	22.4	12.0	5.44	5.39	27.5	26.3	---	---	13.5	1975
1976	---	---	2.16	43.9	21.6	12.3	8.66	1.56	0.389	0.285	---	---	11.3	1976
1977	---	---	1.61	4.20	3.80	1.88	3.84	1.81	2.19	4.53	---	---	2.99	1977
1978	---	---	1.02	10.2	9.93	2.77	1.63	0.598	0.952	1.34	---	---	3.55	1978
MEAN	---	---	1.02	14.2	16.5	8.65	4.98	2.45	3.29	3.31	---	---	6.77	MEAN

LOCATION - LAT 50 06 30 N LONG 100 07 00 W DRAINAGE AREA 3 480 km^2 REGULATED SINCE 1961

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER NEAR RAPID CITY - STATION NO. 05MF021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	5.61 CN MAY 31	0 CN AUG 03 *	16 900	1961
1962	---	34.3 CN APR 21	0 B CN MAR 01	33 000	1962
1963	---	23.6 CN APR 15	0 B CN MAR 01	102 000	1963
1964	---	19.3 CN MAY 05	0.113B CN MAR 01	57 900	1964
1965	---	46.2 CN JUL 21	0.227B CN MAR 01	184 000	1965
1966	---	21.7 CN MAY 14	0.283B CN MAR 01	130 000	1966
1967	---	46.7 B CN APR 16	0.079E CN OCT 04	142 000	1967
1968	---	16.4 B CN MAR 27	0.389 CN JUL 03	94 000	1968
1969	---	92.0 CN APR 15	0.396B CN MAR 01	212 000	1969
1970	---	95.7 CN MAY 14 *	0.906B CN MAR 01	295 000	1970
1971	---	60.3 CN JUN 14	0.651B CN MAR 01	211 000	1971
1972	---	41.1 E CN APR 20	0.178 CN SEP 12	161 000	1972
1973	---	5.75 CN OCT 12	0.057B CN MAR 01	45 800	1973
1974	---	85.2 CN APR 21	0.368 CN OCT 03	234 000	1974
1975	---	66.8 CN SEP 29	0.334B CN MAR 01	286 000	1975
1976	---	72.8 CN APR 21	0.224E CN OCT 06	239 000	1976
1977	---	10.7 CN APR 18	0.215 CN JUL 07	63 200	1977
1978	---	18.2 B CN APR 18	0.374E CN AUG 27	75 100	1978
				143 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SASKATCHEWAN RIVER NEAR RIVERS - STATION NO. 05MF018

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1944	---	---	---	---	---	---	---	5.73	2.32	2.44	---	---	---	1944
1945	---	---	---	12.1	12.5	7.65	5.99	2.20	1.13	1.03	---	---	---	1945
1946	---	---	---	18.6	10.2	3.30	3.71	1.24	1.02	4.71	---	---	---	1946
1947	---	---	---	14.8	28.0	18.6	35.5	6.23	2.87	2.45	3.07	---	---	1947
1948	---	---	0.796	13.2	35.3	8.16	7.68	5.60	1.73	1.11	1.03	---	---	1948
1949	---	---	---	---	5.24	7.14	4.74	5.50	1.44	0.968	1.63	---	---	1949
1950	---	---	---	10.3	30.3	23.6	20.3	12.4	4.73	4.73	---	---	---	1950
1951	---	---	0.569	14.1	17.2	6.57	2.91	0.626	1.14	2.95	---	---	---	1951
1952	---	---	0.097	9.17	3.81	2.14	1.35	0.722	9.29	2.67	---	---	---	1952
1953	---	---	0.026	12.3	19.6	22.9	17.7	8.57	4.25	3.49	---	---	---	1953
1954	---	---	---	9.15	13.3	20.3	15.5	4.34	5.35	10.8	5.51	---	---	1954
1955	---	---	---	24.3	23.2	19.6	13.0	3.94	1.68	1.85	1.35	0.847	---	1955
1956	0.369	0.260	0.919	15.4	31.5	43.7	43.2	13.4	5.95	4.06	6.10	3.13	14.0	1956
1957	2.32	1.74	7.05	18.0	31.6	11.4	7.86	2.98	1.98	1.54	2.04	1.35	7.53	1957
1958	0.401	0.147	3.45	9.50	3.29	1.41	1.80	0.229	0.017	0.278	0.719	0.172	1.79	1958
1959	0.009	0	0.697	5.34	6.40	2.95	0.796	0.409	0.340	1.40	1.83	0.895	1.76	1959
1960	1.22	0.760	0.094	11.9	19.7	19.7	6.86	0.589	0.609	0.607	0.646	0.575	5.27	1960
1961	0.557	0.583	0.544	0.254	0.139	0.589	0.612	0.550	0.379	0.083	0.032	0.324	0.386	1961
1962	0.519	0.880	1.01	0.191	0.392	1.85	1.34	0.714	0.117	0.968	0.581	0.789	0.812	1962
1963	1.33	1.43	0.887	6.97	9.23	12.0	5.19	1.58	0.864	1.32	0.767	1.73	3.61	1963
1964	1.67	1.62	1.65	2.01	10.0	2.53	1.53	0.590	0.132	0.179	0.450	1.88	2.03	1964
1965	2.01	2.02	1.96	7.13	15.9	12.3	5.93	2.78	7.88	5.87	3.26	4.35	5.97	1965
1966	4.04	3.60	2.66	3.23	17.2	8.68	2.37	3.26	1.31	0.611	0.751	0.667	4.04	1966
1967	1.90	2.22	2.05	16.1	20.3	9.86	2.48	0.782	0.268	0.116	1.07	2.18	4.87	1967
1968	2.17	2.10	1.40	4.14	4.29	3.10	2.27	6.15	5.04	1.79	2.14	2.27	3.08	1968
1969	2.41	2.04	1.53	26.6	11.4	3.63	17.4	4.44	1.70	1.85	2.10	2.63	6.49	1969
1970	2.62	2.49	2.52	8.81	51.5	19.2	8.09	3.63	1.77	2.64	4.34	2.55	9.24	1970
1971	2.55	2.37	2.19	7.57	11.8	20.4	13.3	6.16	2.30	5.44	5.37	4.22	7.00	1971
1972	2.15	1.72	1.63	19.1	25.9	6.45	1.79	0.948	0.658	0.680	0.680	0.659	5.20	1972
1973	0.607	0.713	0.684	0.798	1.93	2.49	1.49	0.953	4.38	5.52	2.51	1.62	1.82	1973
1974	1.10	1.08	1.01	21.5	36.6	19.4	2.77	1.15	1.09	1.07	0.883	0.822	7.39	1974
1975	0.817	0.775	0.751	6.47	21.9	10.5	5.46	4.76	23.8	23.2	8.80	4.01	9.31	1975
1976	3.41	2.81	2.38	47.8	24.1	12.0	10.2	1.93	0.879	0.832	0.732	0.749	8.79	1976
1977	0.725	0.682	0.433	1.42	3.81	1.61	3.45	2.17	2.01	4.96	1.58	1.54	2.05	1977
1978	1.47	1.48	1.48	4.16	11.1	3.46	1.72	1.02	0.836	0.784	0.827	0.842	2.69	1978
1979	0.783	0.778	0.791	21.4	39.4	21.2	4.13	1.04	0.825	0.826	0.816	0.820	7.76	1979
1980	0.808	0.786	0.801	1.45	3.07	0.973	1.12	1.46	4.72	2.46	1.24	1.63	1.71	1980
1981	1.57	1.51	1.23	3.71	3.77	3.80	2.82	1.11	1.09	1.04	1.24	1.75	2.01	1981
1982	1.46	1.52	1.40	8.92	9.71	3.34	1.55	1.46	1.31	0.841	1.56	1.13	2.85	1982
1983	1.09	1.05	1.04	15.1	18.0	8.35	4.42	1.85	1.18	1.08	0.930	0.887	4.59	1983
1984	0.877	0.303	0.099	0.245	4.15	3.59	2.39	1.19	0.663	0.535	0.745	0.780	1.30	1984
1985	0.734	0.697	1.43	7.56	6.54	2.53	1.60	2.86	3.63	4.43	4.97	0.994	3.17	1985
1986	0.842	0.844	0.988	23.0	30.0	8.15	3.97	2.33	2.14	2.78	1.89	0.852	6.42	1986
1987	0.917	1.13	2.03	32.2	9.09	2.29	1.11	0.796	0.882	1.60	0.934	0.742	4.47	1987
1988	0.754	0.724	0.685	3.66	11.2	1.94	0.479	0.251	0.012	0.008	0.122	0.361	1.69	1988
1989	0.249	0.226	0.207	2.12	1.83	3.25	1.97	1.28	1.25	0.572	0.658	0.616	1.19	1989
1990	0.544	0.514	0.556	7.22	18.2	9.70	3.38	0.935	2.43	2.42	1.07	0.994	4.01	1990
MEAN	1.34	1.25	1.33	11.4	15.7	9.57	6.62	2.87	2.52	2.63	1.93	1.45	4.47	MEAN

LOCATION - LAT 50 01 26 N DRAINAGE AREA 3 910 km^2
LONG 100 12 56 W REGULATED SINCE 1960

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER NEAR RIVERS - STATION NO. 05MF018

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1944	---	---	---	---	1944
1945	---	---	---	---	1945
1946	---	---	---	---	1946
1947	---	---	---	---	1947
1948	---	64.6 ON MAY 05	---	---	1948
1949	---	---	---	---	1949
1950	---	57.8 ON MAY 24	---	---	1950
1951	---	32.0 B ON APR 04	---	---	1951
1952	---	32.3 ON SEP 12	0 B ON MAR 01 *	---	1952
1953	---	35.4 ON JUN 11	---	---	1953
1954	---	26.2 ON JUN 16	---	---	1954
1955	---	32.0 ON APR 12	---	---	1955
1956	---	65.1 ON JUN 26	0.227B ON FEB 12	444 000	1956
1957	---	59.5 ON MAY 03	0.538B ON DEC 25	237 000	1957
1958	---	17.9 B ON APR 01	0 ON SEP 10	56 500	1958
1959	---	9.06 ON MAY 21	0 B ON JAN 13	55 500	1959
1960	---	29.4 ON APR 26	0.085B ON MAR 05	167 000	1960
1961	---	0.725E ON JUN 30	0 E ON NOV 13	12 200	1961
1962	---	1.98 E ON JUN 08	0.006E ON OCT 04	25 600	1962
1963	---	35.7 ON JUN 11	0.020E ON MAR 30	114 000	1963
1964	---	14.8 ON MAY 11	0.045 ON SEP 18	64 300	1964
1965	---	26.7 ON JUL 21	1.84 ON APR 08	188 000	1965
1966	---	19.5 ON MAY 14	0.048 ON APR 19	127 000	1966
1967	---	41.1 ON APR 19	0.031 ON SEP 06	154 000	1967
1968	---	8.35 ON AUG 16	0 ON APR 06	97 300	1968
1969	---	103 A ON APR 15 *	0.093A ON APR 09	205 000	1969
1970	92.0 AT 02:06 CST ON MAY 16 *	87.2 ON MAY 15	0.054 ON APR 21	292 000	1970
1971	37.4 AT 10:00 CST ON JUN 16	36.8 ON JUN 16	0.816 ON APR 14	221 000	1971
1972	47.3 AT 01:21 CST ON APR 18	45.9 ON APR 18	0.462 ON SEP 05	165 000	1972
1973	---	7.16 ON OCT 24	0.314 ON SEP 01	57 300	1973
1974	70.2 AT 17:53 CST ON APR 21	68.2 ON APR 21	0.810 ON DEC 25	233 000	1974
1975	52.1 AT 06:00 CST ON SEP 30	51.5 ON SEP 30	0.742B ON MAR 13	293 000	1975
1976	73.9 AT 11:35 CST ON APR 21	72.8 ON APR 21	0.665 ON OCT 31	278 000	1976
1977	8.13 AT 12:00 CST ON OCT 24	7.82 ON JUL 23	0.250 ON JUL 10	64 600	1977
1978	17.8 AT 13:20 CST ON MAY 08	17.0 ON MAY 08	0.765 ON NOV 02	84 800	1978
1979	89.9 AT 06:07 CST ON APR 24	86.9 ON APR 24	0.762B ON FEB 02	245 000	1979
1980	10.4 AT 12:44 CST ON SEP 23	8.20 ON SEP 24	0.034 ON JUL 27	54 100	1980
1981	6.23 AT 07:55 CST ON APR 13	6.00 ON APR 13	1.01 ON OCT 06	63 400	1981
1982	24.2 AT 14:13 CST ON APR 24	23.9 ON APR 24	0.822 ON OCT 07	89 900	1982
1983	48.6 AT 04:25 CST ON APR 24	47.8 ON APR 24	0.861B ON DEC 17	145 000	1983
1984	7.42 AT 21:14 CST ON MAY 23	6.85 ON MAY 23	0.035 ON MAR 29	41 200	1984
1985	16.0 AT 19:27 CST ON APR 25	15.5 ON APR 24	0.580 ON AUG 02	99 900	1985
1986	51.9 AT 11:58 CST ON MAY 16	51.3 ON MAY 16	0.386 ON SEP 12	203 000	1986
1987	65.5 AT 14:05 CST ON APR 08	61.3 ON APR 10	0.106 ON SEP 05	141 000	1987
1988	20.9 AT 05:21 CST ON MAY 15	20.1 ON MAY 15	0.002 ON SEP 15	53 500	1988
1989	6.42 AT 17:21 CST ON JUN 23	6.25 ON JUN 23	0.168B ON MAR 03	37 400	1989
1990	25.9 AT 08:16 CST ON MAY 02	25.6 ON MAY 02	0.459B ON FEB 10	127 000	1990
				141 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SOURIS RIVER NEAR BRANDON - STATION NO. 05MH006

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0	1.04	0.275	0	0	0	0	0	---	---	0.162	1961
1962	---	---	0	3.87	0.144	0.184	0.006	0.003	0	0	---	---	0.516	1962
1963	---	---	0.100	0.909	0.011	0.138	0.005	0	0	0	---	---	0.033	1963
1964	---	---	0	2.74	0.182	0.025	0.026	0	0.156	0.015	---	---	0.386	1964
1965	---	---	0	5.92	0.214	0.116	0.015	0	0.013	0.004	---	---	0.770	1965
1966	---	---	1.25	0.438	0.219	0.130	0.091	0.004	0	0	---	---	0.267	1966
1967	---	---	0	1.14	0.167	0.011	0	0	0	0	---	---	0.163	1967
1968	---	---	0.464	0.049	0.009	0.001	0	0	0.003	0	---	---	0.066	1968
1969	---	---	0	6.19	0.299	0.245	0.608	0.016	0.002	0	---	---	0.905	1969
1970	---	---	0	4.14	1.17	0.084	0.216	0.002	0	0	---	---	0.693	1970
1971	---	---	0.015	0.741	0.022	0.342	0.207	0.016	0	0	---	---	0.165	1971
1972	---	---	1.60	0.528	0.110	0.119	0.004	0	0	0	---	---	0.297	1972
1973	---	---	0	0	0.002	0.001	0	0	0	0	---	---	0	1973
1974	---	---	0	9.80	2.02	0.140	0.001	0	0	0	---	---	1.47	1974
1975	---	---	0	2.78	0.401	0.427	0.012	0.180	0.179	0.251	---	---	0.521	1975
1976	---	---	0.032	12.2	0.337	0.089	0.006	0	0	0	---	---	1.56	1976
1977	---	---	0.001	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0.156	1.41	0.088	0.003	0.001	0	0	0	---	---	0.204	1978
1979	---	---	0	4.58	0.569	0.018	0.008	0.001	0	0	---	---	0.636	1979
1980	---	---	0	0.252	0	0	0	0	0	0	---	---	0.031	1980
1981	---	---	0.147	0.039	0.017	0	0	0.170	0.021	0.020	---	---	0.052	1981
1982	---	---	0.525	1.33	0.197	0.040	0.004	0.002	0	0	---	---	0.505	1982
1983	---	---	0.049	1.61	0.050	0.022	0	0	0	0	---	---	0.457	1983
1984	---	---	0.140	0.027	0.299	0	0	0	0	0	---	---	0.059	1984
1985	---	---	2.34	1.31	0.016	0.002	0	0.012	0.003	0.023	---	---	0.464	1985
1986	---	---	2.07	0.705	0.777	0.001	0.019	0.017	0	0	---	---	0.451	1986
1987	---	---	1.09	2.64	0.026	0.001	0	0	0	0	---	---	0.464	1987
1988	---	---	0	0	0	0	0.141	0	0	0	---	---	0.018	1988
1989	---	---	0	1.84	0.007	0	0	0	0	0	---	---	0.226	1989
1990	---	---	0.174	0.344	0.023	0.007	0	0	0	0	---	---	0.068	1990
MEAN	---	---	0.338	2.39	0.255	0.072	0.046	0.014	0.013	0.010	---	---	0.387	MEAN

LOCATION - LAT 49 43 56 N
LONG 099 50 52 W
DRAINAGE AREA, 461 km^2
NATURAL FLOW

LITTLE SOURIS RIVER NEAR BRANDON - STATION NO. 05MH006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	4.25 ON APR 09	0B ON MAR 01 *	3 430	1961
1962	---	38.2 ON APR 18	0E ON MAR 01	10 900	1962
1963	---	1.29 ON JUN 04	0B ON MAR 01	696	1963
1964	---	37.1 ON APR 12	0B ON MAR 01	8 170	1964
1965	---	36.2 B ON APR 13	0B ON MAR 01	16 300	1965
1966	---	10.7 B ON MAR 22	0B ON MAR 01	5 650	1966
1967	---	2.81 ON APR 27	0B ON MAR 01	3 440	1967
1968	---	2.86 B ON MAR 26	0B ON MAR 01	1 410	1968
1969	---	40.2 B ON APR 12	0B ON MAR 01	19 200	1969
1970	---	22.1 ON APR 26	0B ON MAR 01	14 700	1970
1971	---	3.00 B ON APR 07	0B ON MAR 01	3 500	1971
1972	---	8.50 B ON MAR 16	0B ON MAR 01	6 280	1972
1973	---	0.008 ON MAY 23	0B ON MAR 01	9.42	1973
1974	---	60.0 ON APR 20 *	0B ON MAR 01	31 200	1974
1975	---	17.6 ON APR 29	0B ON MAR 01	11 000	1975
1976	---	54.4 B ON APR 09	0 ON AUG 07	32 900	1976
1977	---	0.007B ON MAR 16	0B ON MAR 01	2.51	1977
1978	---	9.60 B ON APR 01	0B ON MAR 01	4 320	1978
1979	58.4 B AT 07:24 CST ON APR 22 *	45.3 B ON APR 22	0B ON MAR 01	13 500	1979
1980	5.00B AT 17:40 CST ON APR 06	2.75 B ON APR 07	0B ON MAR 01	655	1980
1981	4.43 AT 16:44 CST ON AUG 25	2.11 ON AUG 26	0 ON MAY 20	1 110	1981
1982	22.8 B AT 15:06 CST ON APR 13	22.1 B ON APR 13	0B ON MAR 01	10 700	1982
1983	16.5 AT 18:21 CST ON APR 08	14.2 ON APR 08	0B ON MAR 01	9 670	1983
1984	---	2.21 E ON MAY 06	0B ON MAR 01	1 240	1984
1985	13.7 B AT 02:53 CST ON MAR 26	12.3 B ON MAR 26	0B ON MAR 01	9 820	1985
1986	20.8 B AT 20:42 CST ON MAR 23	16.2 B ON MAR 23	0B ON MAR 01	9 540	1986
1987	25.9 B AT 18:53 CST ON APR 04	20.5 B ON APR 04	0B ON MAR 01	9 830	1987
1988	2.77 AT 09:39 CST ON JUL 08	1.94 ON JUL 08	0B ON MAR 01	379	1988
1989	19.7 B AT 18:48 CST ON APR 03	15.2 B ON APR 03	0B ON MAR 01	4 780	1989
1990	3.92 AT 20:51 CST ON MAR 13	2.20 B ON MAR 14	0B ON MAR 01	1 440	1990
				8 190	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE WOODY RIVER NEAR BARROWS - STATION NO. 05LC005

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1976	---	---	---	---	---	---	0.521	0.075	0.053	0.154	---	---	---	1976
1977	---	---	0.076	1.14	0.506	0.190	0.915	1.51	1.14	0.762	---	---	0.782	1977
1978	---	---	0.069	0.754	1.44	0.552	0.391	0.202	0.334	0.728	---	---	0.559	1978
1979	---	---	0.067	0.432	3.20	1.25	0.169	0.048	0.177	0.213	---	---	0.695	1979
1980	---	---	0.065	1.18	0.245	0.207	0.145	0.585	0.619	---	---	---	---	1980
1981	---	---	0.058	1.31	0.714	0.585	0.534	0.160	0.296	1.07	---	---	0.591	1981
1982	---	---	0	0.330	1.07	0.599	2.06	0.270	0.162	0.351	---	---	0.606	1982
1983	---	---	0.094	0.587	4.78	1.93	0.892	0.159	0.357	0.183	---	---	0.872	1983
1984	---	---	0.083	2.45	2.77	2.06	0.252	0.059	0.270	1.02	---	---	1.11	1984
1985	---	---	0.142	1.89	1.55	1.36	0.854	2.26	0.714	1.12	---	---	1.24	1985
1986	---	---	0.077	1.19	1.72	0.641	0.498	0.415	0.357	0.394	---	---	0.661	1986
1987	---	---	0.090	1.16	0.499	0.542	1.04	0.319	0.233	0.971	---	---	0.606	1987
MEAN	---	---	0.075	1.13	1.50	0.901	0.689	0.505	0.393	0.633	---	---	0.772	MEAN

LOCATION - LAT 52 50 00 N LONG 101 34 00 W DRAINAGE AREA, 69.7 km^2 NATURAL FLOW

LITTLE WOODY RIVER NEAR BARROWS - STATION NO. 05LC005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1976	---	---	---	---	1976
1977	10.8 AT 17:49 CST ON AUG 10	7.87 ON AUG 10	0.040 ON JUN 29	16 600	1977
1978	4.73 AT 00:00 CST ON APR 29	4.25 ON APR 28	0.057B ON MAR 01	11 800	1978
1979	11.9 AT 20:43 CST ON MAY 25	10.4 ON MAY 25	0.030 ON AUG 22	14 700	1979
1980	4.60 AT 17:59 CST ON SEP 04	4.05 ON APR 22	0.016 ON AUG 02	---	1980
1981	6.03 AT 12:55 CST ON OCT 13	4.64 ON OCT 13	0.032 ON SEP 02	12 500	1981
1982	---	22.7 ON JUL 17	0 B ON MAR 01 *	12 800	1982
1983	13.3 AT 11:04 CST ON JUN 03	10.3 ON JUN 03	0.056 ON SEP 03	18 500	1983
1984	9.40 AT 22:19 CST ON JUN 21	7.12 ON JUN 22	0.026 ON AUG 29	23 600	1984
1985	41.5 AT 15:09 CST ON AUG 13 *	26.7 ON AUG 13 *	0.110B ON MAR 01	26 200	1985
1986	3.40 AT 17:44 CST ON APR 25	3.12 ON MAY 15	0.066B ON MAR 03	14 000	1986
1987	7.59 AT 11:26 CST ON OCT 05	5.26 ON OCT 05	0.062 ON OCT 03	12 800	1987
				16 400	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LONG RIVER ABOVE BADGER CREEK - STATION NO. 05OA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1921	---	---	---	0.885	0.089	0.056	0.015	0.012	0.022	0.021	---	---	---	1921
1922	---	---	---	0.886	0.116	0.026	0.069	0.009	0.009	0.011	---	---	---	1922
1923	---	---	---	---	0.458	0.464	0.319	0.074	---	---	---	---	---	1923
1924	---	---	---	---	1.20	0.455	0.144	0.090	0.012	0.174	---	---	---	1924
1925	---	---	---	1.15	0.393	1.49	0.286	0.043	0.034	0.052	---	---	---	1925
1926	---	---	---	0.184	0.058	0.241	0.196	0.032	0.030	---	---	---	---	1926
1927	---	---	---	1.03	5.80	2.60	1.37	0.337	0.226	0.259	---	---	---	1927
1928	---	---	2.13	0.556	0.233	1.99	2.14	0.416	0.105	0.064	0.048	---	---	1928
1929	---	---	---	---	0.203	0.145	0.023	0.016	0.027	0.038	---	---	---	1929
1930	---	---	---	---	0.934	---	---	---	---	---	---	---	---	1930
1936	---	---	---	---	0.137	0.039	---	---	---	---	---	---	---	1936
MEAN	---	---	2.13	0.782	0.875	0.751	0.507	0.114	0.058	0.088	0.048	---	---	MEAN

LOCATION - LAT 49 08 25 N DRAINAGE AREA, 491 km²
LONG 099 32 40 W NATURAL FLOW

REMARKS - PUBLISHED AS "WHITEMUD CREEK" PRIOR TO 1979

LONG RIVER ABOVE BADGER CREEK - STATION NO. 05OA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1921	---	---	---	---	1921
1922	---	---	---	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1927	---	10.4 ON MAY 24 *	---	---	1927
1928	---	---	---	---	1928
1929	---	---	---	---	1929
1930	---	---	---	---	1930
1936	---	---	---	---	1936
	* - EXTREME RECORDED FOR THE PERIOD OF RECORD			---	MEAN

LONG RIVER NEAR HOLMFIELD - STATION NO. 05OA006

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.358	0.106	0.076	0.022	0.008	0.333	0.023	1.34	---	---	0.286	1959
1960	---	---	0	6.02	1.94	1.21	0.061	0.004	0	0.002	---	---	1.14	1960
1961	---	---	0.063	0.518	0.252	0.039	0	0	0	0	---	---	0.108	1961
1962	---	---	0	1.27	0.243	1.68	0.181	0.380	0.062	0.046	---	---	0.476	1962
1963	---	---	0.408	1.29	0.538	1.45	0.230	0.066	0.021	0.005	---	---	0.496	1963
1964	---	---	0	2.27	0.897	0.345	0.085	0.018	0.030	0.019	---	---	0.452	1964
1965	---	---	0	3.20	1.49	1.07	0.704	0.613	0.350	0.232	---	---	0.950	1965
1966	---	---	1.82	2.07	1.93	0.560	0.709	0.167	0.014	0.029	---	---	0.913	1966
1967	---	---	0.054	1.34	0.887	0.219	0.048	0	0	0.017	---	---	0.318	1967
1968	---	---	0.140	0.268	0.190	0.040	0.047	0.652	1.28	0.272	---	---	0.358	1968
1969	---	---	0	8.98	2.28	0.522	1.49	0.128	0.020	0.072	---	---	1.67	1969
1970	---	---	0	2.83	3.93	1.12	0.418	0.044	0.069	0.061	---	---	1.06	1970
1971	---	---	0	2.89	1.12	2.52	2.16	0.129	0.074	0.496	---	---	1.17	1971
1972	---	---	3.03	5.54	1.93	2.64	0.363	0.598	0.104	0.140	---	---	1.78	1972
1973	---	---	0.435	0.247	0.396	0.711	0.549	0.167	0.260	0.169	---	---	0.366	1973
1974	---	---	0	11.2	6.57	1.99	0.232	0.067	0.049	0.108	---	---	2.50	1974
1975	---	---	0	4.95	3.96	1.44	0.258	0.089	0.166	0.269	---	---	1.38	1975
1976	---	---	0.287	11.2	1.30	0.272	0.027	0.003	0.003	0.063	---	---	1.62	1976
1977	---	---	0.131	0.134	0.235	0.016	0.080	0	0.004	0.014	---	---	0.077	1977
1978	---	---	0.015	2.50	1.08	0.448	0.025	0	0.004	0.005	---	---	0.504	1978
1979	---	---	0	5.29	3.12	0.421	0.033	0.003	0.002	0.010	---	---	1.10	1979
1980	---	---	0.002	0.704	0.009	0.005	0	0.053	0.048	0.113	---	---	0.115	1980
1981	---	0.235	0.218	0.101	0.163	0.140	0.042	0.124	0.036	0.093	---	---	0.115	1981
1982	---	---	0.495	5.42	0.920	0.517	0.113	0.009	0.005	0.135	---	---	0.940	1982
1983	---	---	0.652	3.21	0.671	0.114	0.014	0	0.002	0.018	---	---	0.579	1983
1984	---	---	1.06	0.441	0.548	0.019	0	0	0	0.011	---	---	0.261	1984
1985	---	---	2.36	1.08	0.090	0.026	0.008	0.037	0.014	0.020	---	---	0.455	1985
1986	---	---	0.822	1.61	1.15	0.095	0.339	0.116	0.121	0.712	---	---	0.621	1986
1987	---	---	2.44	3.43	0.112	0.002	0	1.75	0.031	0.029	---	---	0.972	1987
1988	---	---	0.118	0.199	0.064	0.006	0	0	0	0	---	---	0.048	1988
1989	---	---	0.302	1.30	0.020	0.010	0	0	0	0	---	---	0.201	1989
1990	---	---	0.157	0.321	0.013	0.106	0.006	0	0	0	---	---	0.075	1990
MEAN	---	0.235	0.480	2.87	1.19	0.618	0.257	0.173	0.087	0.139	---	---	0.722	MEAN

LOCATION - LAT 49 08 51 N DRAINAGE AREA, 577 km²
LONG 099 24 51 W REGULATED SINCE 1956

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.06 AND 0 M3/S OCCURRED IN FEB

LONG RIVER NEAR HOLMFIELD - STATION NO. 05OA006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	4.98 ON OCT 26	0 B ON MAR 01 *	6 060	1959
1960	---	15.8 B ON APR 07	0 B ON MAR 01	24 100	1960
1961	---	0.977B ON APR 19	0 B ON MAR 01	2 290	1961
1962	---	10.3 ON JUN 15	0 B ON MAR 01	10 100	1962
1963	---	4.81 ON JUN 05	0 B ON MAR 01	10 500	1963
1964	---	5.52 B ON APR 07	0 B ON MAR 01	9 580	1964
1965	---	8.86 B ON APR 13	0 B ON MAR 01	20 100	1965
1966	---	5.32 B ON MAR 31	0 B ON MAR 01	19 300	1966
1967	---	2.97 ON APR 29	0 B ON MAR 01	6 720	1967
1968	---	3.11 ON SEP 09	0 B ON MAR 01	7 590	1968
1969	---	33.1 B ON APR 13	0 B ON MAR 01	35 300	1969
1970	---	11.4 ON MAY 01	0 B ON MAR 01	22 300	1970
1971	---	7.76 ON APR 11	0 B ON MAR 01	24 700	1971
1972	---	13.9 B ON MAR 17	0 B ON MAR 01	37 700	1972
1973	---	2.70 ON JUN 22	0 B ON MAR 01	7 750	1973
1974	---	40.5 B ON APR 17 *	0 B ON MAR 01	53 000	1974
1975	---	17.8 ON APR 29	0 B ON MAR 01	29 300	1975
1976	---	24.1 B ON APR 02	0 ON JUL 26	34 300	1976
1977	---	2.41 ON MAY 21	0 ON JUL 09	1 630	1977
1978	---	5.66 ON MAY 26	0 B ON MAR 01	10 700	1978
1979	---	23.5 B ON APR 22	0 B ON MAR 01	23 300	1979
1980	---	3.02 B ON APR 05	0 B ON MAR 01	2 430	1980
1981	---	0.551 ON AUG 06	0.001 ON JUL 26	2 430	1981
1982	15.7 B AT 11:06 CST ON APR 03	11.4 B ON APR 03	0 B ON MAR 01	19 900	1982
1983	5.69B AT 11:49 CST ON APR 01	5.29 B ON APR 02	0 B ON MAR 01	12 300	1983
1984	4.56B AT 07:45 CST ON MAR 24	3.91 B ON MAR 23	0 ON JUN 25	5 520	1984
1985	---	12.5 B ON MAR 19	0 B ON MAR 01	9 630	1985
1986	4.78 AT 00:33 CST ON APR 21	4.41 ON APR 21	0 B ON MAR 01	13 100	1986
1987	20.4 AT 21:58 CST ON AUG 15 *	16.4 ON AUG 16	0 B ON MAR 01	20 600	1987
1988	---	0.888B ON APR 03	0 B ON MAR 01	1 020	1988
1989	14.4 B AT 17:59 CST ON APR 03	10.1 B ON APR 03	0 B ON MAR 01	4 250	1989
1990	2.96B AT 15:00 CST ON APR 01	2.18 B ON APR 01	0 B ON MAR 01	1 580	1990
				15 300	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LONG RIVER NEAR KILLARNEY - STATION NO. 05OA013

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.051	0.985	0.449	0.075	0.003	0	0	0	---	---	0.193	1967
1968	---	---	0.065	0.153	0.155	0.010	0.001	0.342	0.563	0.139	---	---	0.178	1968
1969	---	---	0	5.36	1.55	0.463	0.906	0.110	0.017	0.050	---	---	1.05	1969
1970	---	---	0.003	1.62	2.40	0.716	0.145	0.016	0	0	---	---	0.610	1970
1971	---	---	0	2.02	0.520	0.962	1.03	0.015	0	0.244	---	---	0.594	1971
1972	---	---	1.18	2.87	1.51	1.19	0.180	0.274	0.044	0.054	---	---	0.906	1972
1973	---	---	0.298	0.208	0.380	0.543	0.251	0.041	0.120	0.146	---	---	0.248	1973
1974	---	---	0	4.85	4.26	1.46	0.158	0.017	0.012	0.016	---	---	1.34	1974
1975	---	---	0	2.43	2.08	1.15	0.205	0.003	0.036	0.165	---	---	0.753	1975
1976	---	---	0.349	7.32	1.07	0.292	0.002	0	0	0	---	---	1.11	1976
MEAN	---	---	0.195	2.78	1.44	0.686	0.288	0.062	0.079	0.081	---	---	0.698	MEAN

LOCATION - LAT 49 10 20 N DRAINAGE AREA, 209 km^2
LONG 099 40 40 W NATURAL FLOW

REMARKS - PUBLISHED AS "WHITEMUD CREEK" PRIOR TO 1979

LONG RIVER NEAR KILLARNEY - STATION NO. 05OA013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	2.06 ON APR 30	0B ON MAR 01 *	4 090	1967
1968	---	2.01 ON AUG 26	0B ON MAR 01	3 760	1968
1969	---	16.9 ON APR 12	0B ON MAR 01	22 100	1969
1970	---	6.40 ON APR 30	0B ON MAR 01	12 900	1970
1971	---	5.01B ON APR 07	0B ON MAR 01	12 600	1971
1972	---	4.67 ON JUN 14	0B ON MAR 01	19 200	1972
1973	---	3.03 ON JUN 21	0B ON MAR 01	5 250	1973
1974	---	20.2 ON APR 21	0B ON MAR 01	28 300	1974
1975	---	6.99E ON APR 29	0B ON MAR 01	15 900	1975
1976	---	20.5 ON APR 07 *	0 ON JUL 05	23 500	1976
				14 800	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LONG RIVER NEAR LYONSHALL - STATION NO. 05OA014

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	---	---	---	0.299	0.265	0.097	0.194	0.110	---	---	---	1973
1974	---	---	0	4.85	4.18	1.31	0.100	0.038	0.019	0.014	---	---	1.30	1974
1975	---	---	0	2.47	1.82	0.624	0.057	0.025	0.050	0.090	---	---	0.637	1975
1976	---	---	0.188	3.76	0.862	0.199	0.024	0.003	0.001	0.004	---	---	0.622	1976
1977	---	---	0.008	0.028	0.069	0.002	0.082	0.002	0.006	0.003	---	---	0.025	1977
1978	---	---	0.023	0.500	0.414	0.160	0.041	0	0	0.004	---	---	0.142	1978
1979	---	---	0.008	1.89	0.863	0.189	0.050	0.003	0.052	0.011	---	---	0.380	1979
1980	---	---	0.005	0.131	0.003	0.004	0	0.006	0.070	0.121	---	---	0.042	1980
1981	---	0.217	0.151	0.115	0.137	0.242	0.062	0.011	0.002	0.024	---	---	0.093	1981
1982	---	---	0.028	1.13	0.482	0.232	0.036	0.020	0.002	0.052	---	---	0.246	1982
MEAN	---	0.217	0.046	1.65	0.981	0.326	0.072	0.021	0.040	0.043	---	---	0.387	MEAN

LOCATION - LAT 49 07 55 N LONG 099 48 04 W DRAINAGE AREA, 158 km² NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.09 AND 0 M3/S OCCURRED IN FEB

LONG RIVER NEAR LYONSHALL - STATION NO. 05OA014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	---	---	---	1973
1974	25.4 AT 19:12 CST ON APR 21 *	21.3 ON APR 21 *	0B ON MAR 01 *	27 600	1974
1975	15.6 AT 08:11 CST ON APR 29	13.4 ON APR 29	0B ON MAR 01	13 500	1975
1976	9.66 AT 20:54 CST ON APR 07	7.42 ON APR 18	0 ON AUG 07	13 200	1976
1977	1.66 AT 14:16 CST ON JUL 11	1.26 ON JUL 11	0B ON MAR 01	533	1977
1978	5.35 AT 10:11 CST ON MAY 25	3.85 ON MAY 26	0 ON AUG 07	3 000	1978
1979	10.8 AT 00:00 CST ON APR 22	8.00 ON APR 22	0 ON JUL 20	8 040	1979
1980	---	0.243B ON APR 01	0B ON MAR 01	894	1980
1981	---	0.368 ON JUN 24	0 ON JUL 21	1 960	1981
1982	6.40 AT 00:00 CST ON APR 16	5.38 ON APR 16	0B ON MAR 01	5 200	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		8 210	MEAN

LONG RIVER NEAR WAKOPA - STATION NO. 05OA009

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	0.046	0.045	0.121	0.034	0	0	0	---	---	0.030	1962
1963	---	---	0.245	0.503	0.154	0.431	0.020	0	0	0	---	---	0.167	1963
1964	---	---	0	0.706	0.454	0.219	0.066	0	0.036	0.025	---	---	0.187	1964
1965	---	---	0	1.62	0.969	0.646	0.645	0.428	0.241	0.097	---	---	0.578	1965
1966	---	---	0.861	1.42	1.49	0.259	0.410	0.054	0.001	0	---	---	0.561	1966
1967	---	---	0.003	0.737	0.350	0.047	0	0	0	0	---	---	0.141	1967
1968	---	---	0.055	0.191	0.118	0.009	0	0.329	0.313	0.182	---	---	0.149	1968
1969	---	---	0	5.82	1.52	0.612	0.752	0.099	0.012	0.032	---	---	1.09	1969
1970	---	---	0.045	2.14	2.40	0.575	0.219	0.058	0	0	---	---	0.677	1970
1971	---	---	0	1.28	0.441	1.07	1.00	0.057	0	0.329	---	---	0.519	1971
1972	---	---	0.693	2.94	1.92	0.872	0.111	0.174	0.059	0.061	---	---	0.849	1972
1973	---	---	0.192	0.124	0.242	---	---	---	---	---	---	---	---	1973
MEAN	---	---	0.175	1.46	0.842	0.442	0.296	0.109	0.060	0.066	---	---	0.450	MEAN

LOCATION - LAT 49 06 10 N LONG 099 50 10 W DRAINAGE AREA, 142 km² NATURAL FLOW

REMARKS - PUBLISHED AS "WAKOPA CREEK" PRIOR TO 1979

LONG RIVER NEAR WAKOPA - STATION NO. 05OA009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	0.671 ON JUN 17	0B ON MAR 01 *	645	1962
1963	---	1.51 ON JUN 04	0B ON MAR 01	3 540	1963
1964	---	1.81 ON APR 17	0B ON MAR 01	3 950	1964
1965	---	3.06 B ON APR 17	0B ON MAR 01	12 200	1965
1966	---	3.00 B ON APR 01	0B ON MAR 01	11 900	1966
1967	---	0.966 ON APR 24	0B ON MAR 01	2 970	1967
1968	---	2.19 ON AUG 25	0B ON MAR 01	3 160	1968
1969	---	18.3 B ON APR 12 *	0B ON MAR 01	23 100	1969
1970	---	8.38 ON APR 29	0B ON MAR 01	14 300	1970
1971	---	5.92 ON JUN 15	0B ON MAR 01	11 000	1971
1972	---	4.30 B ON APR 16	0B ON MAR 01	18 000	1972
1973	---	---	---	---	1973
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		9 520	MEAN

LOON RIVER ABOVE BRITTON LAKE - STATION NO. 06EA008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	0.644	0.581	0.486	4.23	6.19	6.12	---	---	1.74	1.88	1.27	0.773	---	1977
1978	0.575	0.440	0.386	0.468	4.46	2.84	1.42	1.78	2.24	3.42	1.73	0.998	1.71	1978
1979	0.874	0.637	0.616	0.661	2.77	2.67	0.950	0.788	1.47	2.06	1.57	0.889	1.33	1979
1980	0.657	0.582	0.441	2.44	2.02	0.396	0.605	1.82	3.73	4.24	1.44	0.834	1.60	1980
1981	0.647	0.528	0.506	0.529	3.71	1.23	0.650	0.444	0.262	0.216	0.186	0.168	0.760	1981
1982	0.171	0.227	0.264	0.404	6.87	6.21	2.20	7.31	3.30	0.986	0.588	0.486	2.43	1982
1983	0.464	0.470	0.423	0.813	3.94	5.66	2.15	2.48	7.11	4.67	1.46	0.770	2.45	1983
1984	0.510	0.471	0.580	3.83	2.48	1.65	0.947	2.71	4.63	2.05	1.72	1.13	1.89	1984
1985	0.820	0.672	0.592	1.85	8.19	3.66	2.72	2.57	0.977	0.700	0.564	0.333	1.98	1985
1986	0.248	0.209	0.183	0.634	6.30	2.72	4.31	4.58	1.10	0.775	0.641	0.623	1.88	1986
1987	0.568	0.519	0.499	2.84	4.55	2.79	1.83	0.819	---	---	---	---	---	1987
MEAN	0.562	0.485	0.452	1.70	4.66	3.25	1.78	2.43	2.66	2.10	1.12	0.700	1.78	MEAN

LOCATION - LAT 56 03 16 N LONG 101 51 30 W DRAINAGE AREA, 1 400 km² NATURAL FLOW

LOON RIVER ABOVE BRITTON LAKE - STATION NO. 06EA008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	11.7 AT 18:30 CST ON MAY 30	11.5 ON MAY 30	0.357 ON APR 03	---	1977
1978	5.15 AT 22:04 CST ON MAY 10	5.10 ON MAY 07	0.377B ON MAR 17	53 800	1978
1979	5.21 AT 01:50 CST ON MAY 27	5.07 ON MAY 26	0.476 ON APR 06	42 100	1979
1980	6.77 AT 22:04 CST ON APR 24	6.69 ON APR 24	0.312 ON JUN 24	50 700	1980
1981	6.58 AT 11:53 CST ON MAY 09	6.48 ON MAY 10	0.165B ON DEC 25	24 000	1981
1982	12.1 AT 12:00 CST ON AUG 20	12.1 ON AUG 20	0.160B ON JAN 07 *	76 800	1982
1983	12.5 AT 23:59 CST ON SEP 20 *	12.5 ON SEP 21 *	0.395B ON MAR 25	77 400	1983
1984	8.27 ON AUG 24	8.10 ON AUG 24	0.293 ON AUG 06	59 700	1984
1985	11.1 AT 01:00 CST ON MAY 05	11.0 ON MAY 05	0.290B ON DEC 31	62 600	1985
1986	10.2 ON MAY 17	10.2 ON MAY 17	0.170B ON MAR 31	59 300	1986
1987	9.02 AT 17:25 CST ON APR 29	9.79 ON APR 29	---	---	1987
				56 300	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MAIN DRAIN NEAR DOMINION CITY - STATION NO. 05OD028

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	4.24	0.037	0	0	0	0	0	---	---	0.524	1960
1961	---	---	0.142	0.441	0	0	0	0	0	0.001	---	---	0.072	1961
1962	---	---	0	1.29	0.754	0.101	0.134	0.014	0	0	---	---	0.529	1962
1963	---	---	0	0.027	0.007	1.19	0.251	0.027	0	0	---	---	0.259	1963
1964	---	---	0	2.17	1.05	4.32	0	0	0.254	0.015	---	---	0.960	1964
1965	---	---	0	5.34	0.275	0.001	0.032	0.014	1.09	0.881	---	---	0.939	1965
1966	---	---	0.480	6.11	1.70	0.183	0.843	0.011	0.112	0	---	---	1.17	1966
1967	---	---	1.47	9.44	3.46	0.001	0	0	0	0	---	---	1.78	1967
1968	---	---	1.92	0.779	0.012	0.246	2.15	1.36	3.31	0.173	---	---	1.24	1968
1969	---	---	0	3.22	0.279	3.207	0.013	0	0	0.030	---	---	0.461	1969
1970	---	---	0	3.91	1.73	1.02	0.005	0	0.065	0	---	---	0.830	1970
1971	---	---	0	3.07	0.032	0.028	0	0	0	0	---	---	0.383	1971
1972	---	---	0.502	1.31	0	0	0	0	0	0	---	---	0.223	1972
1973	---	---	0.375	0.002	0	0.148	0	0	0.136	0.373	---	---	0.130	1973
1974	---	---	0	6.65	2.76	0.105	0	0	0	0	---	---	1.18	1974
1975	---	---	0	1.23	0.168	0.695	0.130	0.002	0.001	0.001	---	---	0.274	1975
1976	---	---	0	2.08	0	0.052	0.001	0	0	0	---	---	0.261	1976
1977	---	---	0.026	0.274	0	0	0	0	0	0	---	---	0.037	1977
1978	---	---	0.738	1.90	0.003	0	0	0	0	0	---	---	0.328	1978
1979	---	---	0	7.96	0.374	0.267	0.006	0	0.011	0	---	---	1.06	1979
1980	---	---	0.003	1.00	0	0	0.001	0	0.001	0.003	---	---	0.124	1980
1981	---	---	0.325	0.044	0.014	0.003	0	0	0	0.001	---	---	0.049	1981
1982	---	---	0.165	1.29	0.006	0.034	0.293	0.026	0	0.134	---	---	0.242	1982
1983	---	---	1.16	2.07	0.104	0.005	0.001	0	0	0	---	---	0.414	1983
1984	---	---	0.151	0.182	0.003	0.105	0.002	0	0	0	---	---	0.055	1984
1985	---	---	1.04	0.183	0.037	0	0.001	0.107	0.034	0.124	---	---	0.192	1985
1986	---	---	2.06	1.63	1.21	0.001	0.014	0	0	0	---	---	0.616	1986
1987	---	---	0.414	2.16	0	0	0	0	0	0	---	---	0.439	1987
1988	---	---	0.005	0.228	0	0	0	0	0	0	---	---	0.029	1988
1989	---	---	0	1.73	0.009	0	0	0.016	0	0	---	---	0.216	1989
1990	---	---	0.841	1.54	0.006	0.034	0.251	0	0	0	---	---	0.331	1990
MEAN	---	---	0.381	2.47	0.453	0.301	0.133	0.051	0.162	0.056	---	---	0.495	MEAN

LOCATION - LAT 49 08 01 N LONG 097 08 42 W DRAINAGE AREA, 236 km² NATURAL FLOW

MAIN DRAIN NEAR DOMINION CITY - STATION NO. 05OD028

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	15.2 ON APR 06	0B ON MAR 01 *	11 100	1960
1961	---	1.97 B ON MAR 25	0B ON MAR 01	1 530	1961
1962	---	13.1 ON APR 23	0B ON MAR 01	11 200	1962
1963	---	12.9 ON JUN 25	0 ON MAR 01	5 470	1963
1964	---	35.4 ON JUN 12	0B ON MAR 01	20 300	1964
1965	---	24.4 B ON APR 12	0B ON MAR 01	19 900	1965
1966	---	19.8 B ON APR 02	0B ON MAR 01	24 700	1966
1967	---	28.6 ON MAR 31	0B ON MAR 01	17 700	1967
1968	---	19.8 ON SEP 07	0B ON MAR 01	26 300	1968
1969	---	10.7 ON APR 11	0B ON MAR 01	9 760	1969
1970	---	9.06 ON APR 22	0B ON MAR 01	17 600	1970
1971	---	18.2 ON APR 08	0B ON MAR 01	8 110	1971
1972	---	2.69 B ON APR 11	0B ON MAR 01	4 730	1972
1973	---	4.59 ON OCT 10	0B ON MAR 01	2 740	1973
1974	29.4 AT 20:00 CST ON APR 21	28.0 ON APR 17	0B ON MAR 01	24 900	1974
1975	7.56 AT 04:27 CST ON JUN 29	7.42 ON JUN 29	0B ON MAR 01	5 810	1975
1976	18.4 B AT 02:06 CST ON APR 05	16.5 B ON APR 03	0B ON MAR 01	5 530	1976
1977	4.67 AT 22:33 CST ON APR 09	2.38 ON APR 10	0B ON MAR 01	781	1977
1978	10.6 AT 10:10 CST ON APR 09	8.47 ON APR 09	0B ON MAR 01	6 940	1978
1979	49.7 AT 12:30 CST ON APR 19 *	45.6 ON APR 19 *	0B ON MAR 01	22 300	1979
1980	---	4.53 ON APR 07	0B ON MAR 01	2 620	1980
1981	---	0.500B ON MAR 01	0 ON APR 22	1 030	1981
1982	9.85 AT 21:51 CST ON APR 14	6.66 ON APR 15	0B ON MAR 01	5 120	1982
1983	10.2 B AT 17:03 CST ON APR 04	8.34 B ON APR 06	0B ON MAR 01	8 760	1983
1984	1.60B AT 23:42 CST ON MAR 31	1.30 B ON MAR 31	0B ON MAR 01	1 160	1984
1985	5.83 AT 21:50 CST ON MAR 24	5.37 B ON MAR 25	0B ON MAR 01	4 060	1985
1986	---	17.2 B ON MAR 31	0 ON JUN 14	13 000	1986
1987	---	13.3 A ON APR 08	0B ON MAR 01	9 290	1987
1988	---	1.24 A ON APR 05	0B ON MAR 01	606	1988
1989	31.0 AT 17:22 CST ON APR 22	22.5 B ON APR 22	0B ON MAR 01	4 560	1989
1990	7.38 AT 22:26 CST ON APR 03	6.64 ON APR 04	0B ON MAR 01	7 020	1990
				10 500	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MAIN DRAIN NEAR FREDENSTHAL - STATION NO. 05OD029

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.010	0.652	0	0	0	0	0	0	---	---	0.081	1960
1961	---	---	0.022	0.036	0	0	0	0	0	0	---	---	0.007	1961
1962	---	---	0	0.427	0.079	0	0	0.004	0	0	---	---	0.063	1962
1963	---	---	0.001	0.004	0	0.915	0.009	0.006	0	0	---	---	0.114	1963
1964	---	---	0	0.211	0.033	0.494	0.002	0	0.051	0.003	---	---	0.097	1964
1965	---	---	0	0.171	0.029	0	0.267	0.067	0.332	0.246	---	---	0.139	1965
1966	---	---	0.374	1.11	0.281	0.001	0.141	0.015	0.092	0	---	---	0.250	1966
1967	---	---	0.056	0.688	0.213	0	0	0	0	0	---	---	0.118	1967
1968	---	---	0.560	0.049	0	0.007	0.072	0.209	0.152	0	---	---	0.132	1968
1969	---	---	0	0.259	0.004	0.019	0	0	0	0	---	---	0.035	1969
1970	---	---	0	0.700	0.307	0.026	0	0	0.033	0	---	---	0.132	1970
1971	---	---	0	0.563	0	0.007	0	0	0	0	---	---	0.070	1971
1972	---	---	0.098	0.248	0	0	0	0	0	0	---	---	0.043	1972
1973	---	---	0.045	0	0	0.008	0	0	0.001	0.069	---	---	0.016	1973
1974	---	---	0	0.889	0.205	0	0	0.002	0	0	---	---	0.135	1974
1975	---	---	0	0.193	0.017	0.025	0.008	0	0	0	---	---	0.030	1975
1976	---	---	0	0.279	0	0.001	0	0	0	0	---	---	0.034	1976
1977	---	---	0.048	0.027	0.003	0.001	0.001	0	0.001	0	---	---	0.010	1977
1978	---	---	0.194	0.161	0.001	0	0.001	0.001	0.014	0	---	---	0.046	1978
1979	---	---	0	1.68	0.022	0.015	0	0	0	0	---	---	0.210	1979
1980	---	---	0.001	0.148	0	0	0	0	0	0.001	---	---	0.018	1980
1981	---	---	0.032	0.006	0	0.002	0	0	0	0.002	---	---	0.005	1981
1982	---	---	0.049	0.333	0.001	0.020	0.117	0.005	0	0.071	---	---	0.074	1982
MEAN	---	---	0.065	0.384	0.052	0.067	0.027	0.013	0.029	0.017	---	---	0.081	MEAN

LOCATION - LAT 49 02 42 N LONG 097 03 18 W DRAINAGE AREA, 23.8 km^2 NATURAL FLOW

MAIN DRAIN NEAR FREDENSTHAL - STATION NO. 05OD029

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	3.43 ON APR 06	0B ON MAR 01 *	1 720	1960
1961	---	0.215B ON APR 02	0B ON MAR 01	152	1961
1962	---	4.53 ON APR 21	0B ON MAR 01	1 330	1962
1963	---	8.50 R ON JUN 03	0 ON MAR 01	2 420	1963
1964	---	6.97 ON JUN 12	0B ON MAR 01	2 060	1964
1965	---	4.47 ON JUL 30	0B ON MAR 01	2 930	1965
1966	---	6.91 ON APR 02	0B ON MAR 01	5 280	1966
1967	---	3.17 ON APR 21	0B ON MAR 01	2 500	1967
1968	---	3.87 ON AUG 24	0B ON MAR 01	2 800	1968
1969	---	1.38 ON APR 11	0B ON MAR 01	732	1969
1970	---	4.73 ON APR 18	0B ON MAR 01	2 790	1970
1971	---	5.01 ON APR 07	0B ON MAR 01	1 480	1971
1972	---	0.680B ON APR 10	0B ON MAR 01	905	1972
1973	---	0.597 ON OCT 09	0B ON MAR 01	330	1973
1974	---	8.50 B ON APR 15	0B ON MAR 01	2 860	1974
1975	---	2.48 ON APR 13	0B ON MAR 01	633	1975
1976	---	2.57 B ON APR 03	0B ON MAR 01	726	1976
1977	---	0.784B ON MAR 28	0B ON MAR 01	214	1977
1978	1.76 AT 06:00 CST ON APR 09	1.34 B ON MAR 28	0B ON MAR 01	981	1978
1979	13.1 B AT 16:21 CST ON APR 18 *	12.1 B ON APR 18 *	0B ON MAR 01	4 450	1979
1980	1.87 AT 18:42 CST ON APR 02	1.60 B ON APR 03	0B ON MAR 01	386	1980
1981	0.147B AT 21:10 CST ON MAR 28	0.123B ON MAR 01	0B ON MAR 05	112	1981
1982	2.73 B AT 18:36 CST ON APR 12	2.25 B ON APR 12	0B ON MAR 01	1 570	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1989		1 710	MEAN

MAIN DRAIN NEAR RIDGEVILLE - STATION NO. 05OD033

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC.	MEAN	YEAR
1983	---	---	0.265	0.644	0.021	0	0	0	0	0	---	---	0.115	1983
1984	---	---	0.111	0.035	0	0.003	0	0	0	0.003	---	---	0.019	1984
1985	---	---	0.204	0.010	0	0.003	0.001	0.024	0.010	0.019	---	---	0.034	1985
1986	---	---	0.681	0.469	0.314	0	0.010	0	0	0	---	---	0.185	1986
1987	---	---	0.439	0.771	0.001	0	0	0	0	0	---	---	0.150	1987
MEAN	---	---	0.340	0.386	0.067	0.001	0.002	0.005	0.002	0.004	---	---	0.101	MEAN

LOCATION - LAT 49 03 40 N LONG 097 04 10 W DRAINAGE AREA, 46.5 km^2 NATURAL FLOW

MAIN DRAIN NEAR RIDGEVILLE - STATION NO. 05OD033

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1983	6.68B AT 18:51 CST ON APR 05 *	2.83B ON APR 06	0B ON MAR 01 *	2 440	1983
1984	3.03B AT 00:34 CST ON MAR 28	1.62B ON MAR 28	0B ON MAR 01	404	1984
1985	---	1.29E ON MAR 21	0B ON MAR 01	721	1985
1986	---	4.68B ON MAR 28 *	0B ON MAR 01	3 910	1986
1987	---	3.79B ON APR 04	0B ON MAR 01	3 180	1987
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 130	MEAN

MANIGOTAGAN RIVER NEAR MANIGOTAGAN - STATION NO. 05RA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	3.68	3.96	4.25	5.67	12.1	8.82	4.87	2.73	2.30	2.43	1.81	1.56	4.52	1913
1914	1.36	1.13	1.13	2.26	5.19	9.76	12.0	3.94	2.71	6.77	3.39	2.55	4.37	1914
1915	1.42	1.42	1.42	13.3	23.0	14.4	7.29	3.85	3.51	6.14	10.2	5.10	7.61	1915
1916	2.83	2.83	2.83	19.0	37.6	33.3	29.2	25.0	22.7	---	---	---	---	1916
1919	---	---	---	---	---	17.9	29.9	19.0	10.9	13.6	14.7	---	---	1919
1921	---	---	---	---	---	31.3	22.5	15.0	4.96	---	---	---	---	1921
1960	---	---	3.63	24.6	41.4	19.7	4.91	1.30	0.956	1.45	1.67	1.30	---	1960
1961	1.31	1.64	2.11	14.5	32.7	14.1	4.37	1.24	0.294	0.164	0.111	0.115	6.07	1961
1962	0.103	0.118	0.687	4.04	23.3	30.4	15.0	35.7	35.7	12.3	8.95	8.89	14.7	1962
1963	6.11	3.48	3.34	20.8	37.7	32.8	14.9	9.71	6.93	3.00	2.33	1.68	11.9	1963
1964	1.11	1.66	1.58	8.18	57.9	24.4	12.0	9.80	8.61	9.64	6.78	5.69	12.3	1964
1965	3.72	2.30	2.48	11.0	40.9	31.2	13.1	5.72	4.44	6.04	6.66	5.88	11.2	1965
1966	5.38	4.69	4.33	12.1	28.2	20.7	14.1	6.69	4.77	3.38	3.14	3.64	9.28	1966
1967	4.58	4.65	4.59	14.2	42.2	24.1	9.57	5.03	3.32	1.88	1.51	1.18	9.83	1967
1968	0.961	0.835	1.03	3.54	13.2	21.3	20.0	12.5	19.2	15.2	12.3	8.60	10.7	1968
1969	6.50	5.10	4.61	14.3	21.9	14.8	13.0	9.88	7.89	9.75	9.08	6.80	10.3	1969
1970	5.28	3.79	3.39	8.06	26.6	35.9	16.2	6.93	3.59	2.47	4.61	9.20	10.5	1970
1971	6.38	4.17	3.19	18.4	27.3	11.4	6.74	2.55	2.16	2.18	2.44	2.17	7.44	1971
1972	2.29	2.71	2.63	13.6	30.6	9.17	3.87	2.18	1.61	1.44	1.75	2.32	6.20	1972
1973	5.58	5.51	5.50	8.33	17.5	10.6	9.03	6.41	7.23	13.8	17.8	11.9	9.20	1973
1974	7.77	6.41	4.41	18.2	74.0	46.1	5.11	1.88	2.43	3.69	4.26	3.87	14.9	1974
1975	3.71	3.97	3.32	6.92	21.0	14.4	8.56	5.88	5.57	4.98	3.78	2.92	7.11	1975
1976	2.79	2.57	2.72	12.5	19.0	9.39	5.52	3.02	2.56	2.68	2.50	2.21	5.63	1976
1977	1.82	1.79	1.64	1.68	1.46	1.87	3.07	3.47	13.7	17.5	10.2	7.23	5.47	1977
1978	5.89	4.64	3.69	10.1	25.6	24.3	26.1	10.8	7.08	5.18	4.20	3.24	10.9	1978
1979	2.82	2.52	2.58	14.7	48.5	42.8	12.8	4.75	3.23	2.82	2.64	2.42	11.9	1979
1980	2.40	2.45	2.53	5.98	8.23	6.27	3.47	2.73	3.23	4.90	6.07	4.53	4.40	1980
1981	3.35	2.75	2.62	3.57	3.07	4.62	4.45	7.48	10.3	7.78	6.68	3.91	5.05	1981
1982	2.65	2.20	2.37	7.19	16.9	17.9	15.0	13.0	5.87	4.71	4.26	3.75	8.02	1982
1983	3.02	2.96	2.93	4.80	6.75	13.0	13.9	5.71	3.14	2.83	2.57	2.39	5.34	1983
1984	2.07	2.01	2.28	4.64	7.19	18.8	20.0	8.22	3.99	5.30	12.4	10.6	8.14	1984
1985	6.58	4.60	3.72	9.17	30.5	15.7	6.85	10.0	7.04	7.20	8.74	7.63	9.85	1985
1986	5.25	3.83	3.60	26.5	38.9	14.6	5.52	3.20	2.70	2.34	1.82	1.60	9.19	1986
1987	1.46	2.21	3.14	7.95	11.0	7.24	3.86	2.09	2.18	2.06	1.93	1.64	3.97	1987
1988	1.41	1.38	1.28	3.24	3.85	2.45	1.87	1.56	1.57	1.41	1.48	1.34 R	1.91 R	1988
1989	1.40	1.60	1.86	2.72	8.05	20.5	13.6	5.18	3.26	2.92	3.34	2.81	5.61	1989
1990	2.51	2.83	3.56	6.97	18.2	28.5	23.9	8.36	3.61	2.62	2.21	1.99	8.81	1990
MEAN	3.31	2.87	2.80	10.4	24.6	19.0	11.8	7.68	6.36	5.50	5.38	4.20 R	8.25 R	MEAN

LOCATION - LAT 51 05 54 N LONG 096 17 00 W

DRAINAGE AREA, 1 830 km²

NATURAL FLOW

R - REVISED SINCE JAN 01 1989

MANIGOTAGAN RIVER NEAR MANIGOTAGAN - STATION NO. 05RA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	13.5 ON MAY 19	1.36 ON SEP 28	142 000	1913
1914	---	17.5 ON JUL 08	1.10 B ON FEB 21	138 000	1914
1915	---	31.4 ON APR 28	1.42 B ON JAN 01	240 000	1915
1916	---	38.8 ON MAY 04	2.83 B ON JAN 01	---	1916
1919	---	32.6 ON JUL 10	---	---	1919
1921	---	---	---	---	1921
1960	---	56.6 ON APR 21	0.510 ON AUG 16	---	1960
1961	---	49.6 ON APR 22	0.065 ON NOV 01 *	191 000	1961
1962	---	68.8 ON AUG 24	0.099 ON JAN 01	463 000	1962
1963	---	46.2 ON MAY 21	1.30 ON DEC 30	376 000	1963
1964	---	72.8 ON MAY 09	0.960 ON JAN 17	390 000	1964
1965	---	50.1 ON MAY 27	1.63 B ON MAR 10	352 000	1965
1966	---	37.4 ON MAY 19	2.80 ON NOV 14	293 000	1966
1967	47.6 AT 17:00 CST ON MAY 12	46.4 ON MAY 09	0.949 ON DEC 28	310 000	1967
1968	23.2 AT 20:00 CST ON JUN 11	23.1 ON JUN 12	0.532 ON FEB 21	340 000	1968
1969	33.1 AT 12:00 CST ON APR 16	32.3 ON APR 16	3.85 ON MAR 29	326 000	1969
1970	43.0 AT 17:00 CST ON JUN 08	42.5 ON JUN 08	2.12 ON OCT 23	332 000	1970
1971	53.5 AT 13:45 CST ON MAY 05	51.8 ON APR 20	1.71 ON AUG 19	235 000	1971
1972	41.1 AT 11:51 CST ON MAY 07	41.1 ON MAY 07	1.26 ON OCT 18	196 000	1972
1973	22.8 AT 06:53 CST ON NOV 01	22.7 ON NOV 01	2.05 ON MAR 09	290 000	1973
1974	104 AT 15:32 CST ON MAY 06 *	103 ON MAY 06 *	1.60 ON JUL 28	469 000	1974
1975	25.6 AT 19:56 CST ON MAY 15	25.3 ON MAY 16	2.38 B ON DEC 12	224 000	1975
1976	24.1 AT 21:29 CST ON MAY 09	23.9 ON MAY 09	1.80 ON DEC 28	178 000	1976
1977	37.4 AT 18:34 CST ON SEP 10	34.0 ON SEP 10	1.38 ON MAY 23	171 000	1977
1978	35.4 AT 18:51 CST ON MAY 17	34.8 ON MAY 17	2.97 B ON DEC 29	145 000	1978
1979	67.3 AT 17:49 CST ON MAY 31	66.3 ON JUN 01	2.22 ON DEC 30	376 000	1979
1980	11.5 AT 13:11 CST ON APR 21	11.4 ON APR 21	2.19 ON JAN 03	139 000	1980
1981	11.7 AT 15:37 CST ON SEP 06	11.3 ON SEP 12	2.22 ON MAY 20	159 000	1981
1982	22.1 AT 17:09 CST ON MAY 22	21.8 ON MAY 21	1.71 B ON FEB 27	253 000	1982
1983	22.4 AT 12:26 CST ON JUN 22	20.0 ON JUN 22	2.19 B ON DEC 25	168 000	1983
1984	32.9 AT 16:27 CST ON JUN 23	32.4 ON JUN 23	1.85 B ON JAN 10	257 000	1984
1985	36.7 AT 14:25 CST ON MAY 15	36.5 ON MAY 15	2.92 B ON MAR 03	311 000	1985
1986	47.0 AT 14:55 CST ON MAY 11	46.7 ON MAY 11	1.51 B ON NOV 30	290 000	1986
1987	12.9 AT 15:27 CST ON MAY 04	12.9 ON MAY 04	1.01 B ON JAN 27	125 000	1987
1988	5.30 AT 23:26 CST ON APR 10	5.41 ON APR 11	1.13 ON JAN 06	60 400	1988
1989	27.6 AT 14:31 CST ON JUN 13	27.3 ON JUN 13	1.09 B ON JAN 11	177 000	1989
1990	33.4 AT 17:48 CST ON JUN 23	33.4 ON JUN 24	1.78 B ON DEC 22	278 000	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		260 000	MEAN

MANNESS DRAIN NEAR SANFORD - STATION NO. 05OG010

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.120	0.008	0.110	0.021	0.004	0	0	0	---	---	0.033	1981
1982	---	---	0.010	0.348	0	0	0	0	0	0	---	---	0.044	1982
1983	---	---	0.059	1.16	0.001	0.042	0.002	0	0	0	---	---	0.155	1983
1984	---	---	0.013	0.095	0.007	0.002	0.002	0	0	0	---	---	0.015	1984
1985	---	---	0.571	0.391	0.002	0	0	0.015	0	0.014	---	---	0.124	1985
1986	---	---	0.236	0.583	0.180	0	0.012	0.001	0	0	---	---	0.126	1986
1987	---	---	0.011	1.76	0	0	0	0	0	0	---	---	0.217	1987
MEAN	---	---	0.146	0.621	0.043	0.009	0.003	0.002	0	0.002	---	---	0.102	MEAN

LOCATION - LAT 49 37 14 N LONG 097 22 32 W DRAINAGE AREA, 64 km^2 NATURAL FLOW

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "MANNES DRAIN NEAR SANFORD"

MANNESS DRAIN NEAR SANFORD - STATION NO. 05OG010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	3.02 AT 02:43 CST ON MAY 23	1.94 R ON MAY 23	0B ON MAR 01 *	704	1981
1982	4.28 AT 06:35 CST ON APR 13	1.77 ON APR 13	0B ON MAR 01	926	1982
1983	6.39 AT 20:58 CST ON APR 06	5.84 ON APR 07	0B ON MAR 01	3 290	1983
1984	0.661 AT 18:48 CST ON APR 02	0.548 ON APR 02	0B ON MAR 01	313	1984
1985	4.63 B AT 02:42 CST ON MAR 25	3.63 B ON MAR 25	0B ON MAR 01	2 630	1985
1986	3.98 AT 19:15 CST ON MAR 30	3.28 ON APR 01	0B ON MAR 01	2 660	1986
1987	10.3 AT 04:29 CST ON APR 07 *	9.75 ON APR 07 *	0B ON MAR 01	4 590	1987
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1989		2 160	MEAN

MANNING CANAL NEAR ILE DES CHENES - STATION NO. 05OE006

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.943	0.400	0.214	0.283	0	0	0	0	---	---	0.230	1961
1962	---	---	0	3.79	1.60	0.490	0.116	0.085	0.101	0.031	---	---	0.768	1962
1963	---	---	1.03	0.690	0.211	3.01	0.189	0.704	0	0	---	---	0.723	1963
1964	---	---	0	2.64	---	---	---	---	---	---	---	---	---	1964
1965	---	---	0	5.02	1.04	0.661	0.066	0.001	0.023	0.151	---	---	0.858	1965
1966	---	---	0.097	8.75	4.04	0.668	6.57	0.447	3.22	0.071	---	---	2.97	1966
1967	---	---	0.900	19.4	2.12	0.085	0.030	0.009	0.014	0.017	---	---	2.78	1967
1968	---	---	0.092	0.762	1.58	0.161	0.839	1.08	0.658	0.061	---	---	0.656	1968
1969	---	---	0	7.24	0.923	0.336	0.456	0.410	0.060	0.080	---	---	1.17	1969
1970	---	---	0	10.4	5.14	1.20	0.161	0.042	0.180	0.096	---	---	2.14	1970
1971	---	---	0	6.34	0.168	0.047	0.072	0.103	0.131	0.247	---	---	0.872	1971
1972	---	---	0.904	4.04	0.070	0.085	0.134	0.282	0.157	0.144	---	---	0.718	1972
1973	---	---	3.19	0.134	0.070	0.092	0.029	0.040	0.869	0.353	---	---	0.601	1973
1974	---	---	0	18.5	9.86	0.561	0.013	0.011	0.023	0	---	---	3.59	1974
1975	---	---	0	0.830	0.133	1.95	2.19	0.019	0.020	0.043	---	---	0.645	1975
1976	---	---	0	2.06	0.018	2.03	0.040	0.025	0.054	0.008	---	---	0.519	1976
1977	---	---	0.134	0.357	0.084	0.017	0.122	0.026	0.339	0.120	---	---	0.149	1977
1978	---	---	0.197	8.92	0.497	0.047	0.094	0.001	0.043	0.084	---	---	1.21	1978
1979	---	---	0	9.52	1.26	0.887	0.040	0.061	0.052	0.133	---	---	1.47	1979
1980	---	---	0	2.64	0.041	0.034	0.052	0.024	0.164	0.161	---	---	0.383	1980
1981	---	---	0.417	0.156	0.227	0.216	0.081	0.186	0.133	0.253	---	---	0.209	1981
1982	---	---	0.313	2.92	0.132	1.90	0.393	0.283	0.153	0.261	---	---	0.784	1982
1983	---	---	4.04	4.63	0.171	0.254	0.445	0.034	0.144	0.138	---	---	1.23	1983
1984	---	---	0.661	0.488	0.115	1.22	0.237	0.045	0.091	0.181	---	---	0.377	1984
1985	---	---	1.80	0.393	0.092	0.098	0.168	0.853	0.096	0.163	---	---	0.461	1985
1986	---	---	3.75	2.78	5.13	0.104	0.095	0.081	0.072	0.143	---	---	1.53	1986
1987	---	---	0.153	2.70	0.169	0.102	0.087	0.072	0.030	0.173	---	---	0.429	1987
1988	---	---	0.135	1.08	0.092	0.013	0.057	0.011	0.049	0.120	---	---	0.193	1988
1989	---	---	0	1.72	0.206	0.186	0.242	0.088	0.020	0.063	---	---	0.312	1989
1990	---	---	1.11	0.804	0.104	1.37	0.135	0.021	0.029	0.037	---	---	0.448	1990
MEAN	---	---	0.662	4.34	1.22	0.625	0.454	0.174	0.239	0.115	---	---	0.980	MEAN

LOCATION - LAT 49 37 50 N LONG 096 54 20 W DRAINAGE AREA, 496 km² NATURAL FLOW

MANNING CANAL NEAR ILE DES CHENES - STATION NO. 05OE006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	11.9 B ON MAR 26	0B ON MAR 01 *	4 870	1961
1962	---	37.4 ON APR 20	0B ON MAR 01	16 300	1962
1963	---	12.3 ON JUN 05	0B ON MAR 01	15 300	1963
1964	---	17.0 ON MAY 04	0B ON MAR 01	---	1964
1965	---	20.8 B ON APR 14	0B ON MAR 01	18 200	1965
1966	---	23.7 ON JUL 04	0B ON MAR 01	62 800	1966
1967	---	59.2 ON APR 21	0B ON MAR 01	58 800	1967
1968	---	15.9 ON MAY 15	0B ON MAR 01	13 900	1968
1969	---	31.4 ON APR 10	0B ON MAR 01	24 800	1969
1970	---	40.8 ON APR 16	0B ON MAR 01	45 200	1970
1971	---	45.3 ON APR 08	0B ON MAR 01	18 500	1971
1972	---	11.0 ON APR 16	0B ON MAR 01	15 200	1972
1973	---	11.6 B ON MAR 11	0B ON MAR 01	12 700	1973
1974	---	74.2 ON MAY 21 *	0B ON MAR 01	76 000	1974
1975	---	44.7 ON JUN 30	0B ON MAR 01	13 600	1975
1976	---	24.2 ON JUN 13	0B ON MAR 01	11 000	1976
1977	---	1.85 ON SEP 27	0B ON MAR 01	3 150	1977
1978	---	42.5 B ON APR 09	0B ON MAR 01	25 700	1978
1979	64.0 B AT 16:01 CST ON APR 19 *	61.2 B ON APR 19	0B ON MAR 01	31 100	1979
1980	29.0 B AT 06:36 CST ON APR 06	20.5 B ON APR 06	0B ON MAR 01	8 110	1980
1981	3.94 AT 08:00 CST ON JUN 29	3.62 ON JUN 29	0 ON JUL 13	4 430	1981
1982	---	13.8 B ON APR 13	0B ON MAR 01	16 600	1982
1983	26.6 B AT 08:52 CST ON APR 07	19.6 B ON APR 06	0B ON MAR 01	26 000	1983
1984	9.39 AT 08:58 CST ON JUN 13	7.71 ON JUN 13	0B ON MAR 01	7 970	1984
1985	---	10.5 B ON MAR 24	0B ON MAR 01	9 760	1985
1986	42.1 B AT 08:06 CST ON MAR 29	39.6 B ON MAR 29	0 ON AUG 29	32 300	1986
1987	22.4 B AT 20:15 CST ON APR 05	17.5 B ON APR 05	0B ON MAR 01	9 090	1987
1988	---	6.65B ON APR 03	0B ON MAR 01	4 080	1988
1989	8.24 AT 08:31 CST ON APR 16	6.96B ON APR 16	0B ON MAR 01	6 590	1989
1990	8.24 AT 18:46 CST ON JUN 12	6.24B ON MAR 31	0B ON MAR 01	9 480	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		20 700	MEAN

MANNING CANAL NEAR NIVERVILLE - STATION NO. 05OE005

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	1.01	0.336	0.113	0.256	0	0	0	0	---	---	0.215	1961
1962	---	---	0	3.72	1.71	0.653	0.157	0.024	0.002	0	---	---	0.775	1962
1963	---	---	0.115	0.446	0.037	1.46	0.172	0.640	0	0	---	---	0.356	1963
1964	---	---	0	1.29	0.653	0.522	0.014	0.005	0.046	0.008	---	---	0.314	1964
1965	---	---	0	2.41	0.610	0.243	0.018	0.001	0.035	0.084	---	---	0.420	1965
1966	---	---	0.048	4.23	2.15	0.116	3.51	0.245	1.67	0.017	---	---	1.52	1966
1967	---	---	0.746	11.9	0.848	0.022	0.015	0	0.006	0.011	---	---	1.66	1967
1968	---	---	0.005	0.385	1.20	0.110	0.706	0.385	0.190	0.050	---	---	0.382	1968
1969	---	---	0	3.51	0.048	0.041	0.095	0.201	0.026	0.041	---	---	0.486	1969
1970	---	---	0	7.96	3.55	0.487	0.045	0.066	0.141	0.069	---	---	1.52	1970
1971	---	---	0	3.52	0.070	0.037	0.040	0.024	0.056	0.103	---	---	0.472	1971
1972	---	---	1.35	3.82	0.118	0.020	0.056	0.076	0.077	0.111	---	---	0.696	1972
1973	---	---	2.40	0.092	0.022	0.077	0.008	0.019	0.971	0.432	---	---	0.503	1973
1974	---	---	0	11.7	5.51	0.117	0	0.009	0.031	0.005	---	---	2.15	1974
1975	---	---	0	0.660	0.115	0.798	1.04	0.009	0.013	0.028	---	---	0.332	1975
1976	---	---	0	0.914	0.014	0.985	0.026	0.011	0.022	0.010	---	---	0.246	1976
1977	---	---	0.132	0.208	0.099	0.013	0.059	0.007	0.284	0.069	---	---	0.108	1977
MEAN	---	---	0.342	3.36	0.992	0.350	0.351	0.104	0.210	0.062	---	---	0.714	MEAN

LOCATION - LAT 49 36 10 N
LONG 096 50 50 W
DRAINAGE AREA, 277 km²
NATURAL FLOW

MANNING CANAL NEAR NIVERVILLE - STATION NO. 05OE005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1961	---	8.95B ON MAR 25	OB ON MAR 01 *	4 550	1961
1962	---	25.5 E ON APR 18	OB ON MAR 01	16 400	1962
1963	---	4.73 ON AUG 04	OB ON MAR 01	7 530	1963
1964	---	4.28 ON MAY 06	OB ON MAR 01	6 650	1964
1965	---	12.8 B ON APR 14	OB ON MAR 01	8 880	1965
1966	---	16.0 ON JUL 04	OB ON MAR 01	31 700	1966
1967	---	47.9 ON APR 21 *	OB ON MAR 01	35 200	1967
1968	---	9.71 ON MAY 15	OB ON MAR 01	8 080	1968
1969	---	21.7 ON APR 10	OB ON MAR 01	10 300	1969
1970	---	26.6 ON APR 16	OB ON MAR 01	32 300	1970
1971	---	27.8 ON APR 08	OB ON MAR 01	10 000	1971
1972	---	9.00B ON APR 12	OB ON MAR 01	14 700	1972
1973	---	11.2 B ON MAR 13	OB ON MAR 01	10 700	1973
1974	---	46.7 ON MAY 21	OB ON MAR 01	45 600	1974
1975	---	13.8 ON JUN 30	OB ON MAR 01	7 020	1975
1976	---	12.3 ON JUN 13	OB ON MAR 01	5 200	1976
1977	---	1.44 ON SEP 27	OB ON MAR 01	2 290	1977
				15 100	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MARSH RIVER ABOVE CONFLUENCE WITH RAT RIVER - STATION NO. 05OE008

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	13.9	19.0	0.076	0.176	0.042	0.010	0.174	---	---	4.17	1969
1970	---	---	0	17.1	17.6	0.921	0.091	0.005	0.178	0.005	---	---	4.46	1970
MEAN	---	---	0	15.5	18.3	0.499	0.134	0.024	0.094	0.090	---	---	4.32	MEAN

LOCATION - LAT 49 31 50 N
LONG 097 08 30 W
DRAINAGE AREA, 452 km²
NATURAL FLOW

MARSH RIVER ABOVE CONFLUENCE WITH RAT RIVER - STATION NO. 05OE008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1969	---	52.4 ON MAY 01 *	OB ON MAR 01 *	88 300	1969
1970	---	44.2 ON MAY 01	OB ON MAR 01	94 500	1970
				91 400	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MARSH RIVER NEAR OTTERBURNE - STATION NO. 05OE010

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	0	7.05	0.167	0.020	0.003	0	0	0	---	---	0.888	1971
1972	---	---	0.012	3.83	0.167	0.010	0.001	0.001	0.001	0.001	---	---	0.493	1972
1973	---	---	0.385	0.337	0.027	0.003	0	0	0.044	0	---	---	0.099	1973
1974	---	---	0	25.1	18.9	0.937	0.018	0	0	0	---	---	5.58	1974
1975	---	---	0	0.791	5.62	0.762	2.11	0.007	0	0	---	---	1.17	1975
1976	---	---	0	3.73	0.079	0.090	0.022	0	0	0	---	---	0.481	1976
1977	---	---	0	0.208	0.125	0.125	0.006	0	0.012	0.005	---	---	0.059	1977
1978	---	---	0.096	26.8	2.82	0	0.012	0	0	0	---	---	3.66	1978
1979	---	---	0	27.1	55.5	0.568	0.001	0.001	0	0.001	---	---	10.4	1979
1980	---	---	0	2.62	0.074	0.019	0.001	0.004	0.002	0.010	---	---	0.334	1980
1981	---	---	0.668	0.320	0.405	0.539	0.144	0.141	0.092	0.044	---	---	0.294	1981
1982	---	---	0.122	3.14	0.172	0.459	0.131	0.028	0	0	---	---	0.499	1982
1983	---	---	1.42	7.58	0.226	0	0	0	0	0	---	---	1.14	1983
1984	---	---	0.033	0.176	0.040	0.827	0.162	0.017	0	0	---	---	0.155	1984
1985	---	---	2.39	0.846	0.003	0	0	0.011	0.007	0.001	---	---	0.409	1985
1986	---	---	1.22	5.92	2.24	0.037	0	0	0	0	---	---	1.17	1986
1987	---	---	0	12.6	0.006	0	0	0	0	0	---	---	1.55	1987
1988	---	---	0	0.596	0.024	0	0	0	0	0	---	---	0.076	1988
1989	---	---	0	6.59	0.738	0.008	0	0	0	0	---	---	0.901	1989
1990	---	---	0.003	2.42	0.038	0.945	0.051	0	0	0	---	---	0.424	1990
MEAN	---	---	0.317	6.89	4.37	0.267	0.133	0.011	0.008	0.003	---	---	1.49	MEAN

LOCATION - LAT 49 30 00 N DRAINAGE AREA, 393 km²
LONG 097 09 20 W NATURAL FLOW

MARSH RIVER NEAR OTTERBURNE - STATION NO. 05OE010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	42.8 ON APR 11	0 B ON MAR 01 *	18 800	1971
1972	---	10.4 ON APR 18	0 B ON MAR 01	10 400	1972
1973	---	0.756 ON APR 06	0 B ON MAR 01	2 100	1973
1974	---	69.9 ON APR 21	0 B ON MAR 01	118 000	1974
1975	---	16.1 ON MAY 12	0 B ON MAR 01	24 800	1975
1976	---	15.7 ON APR 10	0 B ON MAR 01	10 200	1976
1977	---	0.770B ON APR 14	0 B ON MAR 01	1 260	1977
1978	42.5 B AT 12:14 CST ON APR 23	42.2 B ON APR 23	0 B ON MAR 01	77 400	1978
1979	93.6 AT 21:14 CST ON MAY 06 *	93.0 ON MAY 06 *	0 B ON MAR 01	220 000	1979
1980	7.32 AT 08:38 CST ON APR 10	6.67 B ON APR 10	0 B ON MAR 01	7 070	1980
1981	4.46 AT 08:55 CST ON MAY 31	4.25 ON MAY 31	0.001 ON JUL 29	6 220	1981
1982	14.7 AT 09:45 CST ON APR 16	14.3 ON APR 16	0 B ON MAR 01	10 600	1982
1983	---	26.0 B ON APR 07	0 B ON MAR 01	24 100	1983
1984	3.35 AT 07:48 CST ON JUN 10	3.24 ON JUN 10	0 B ON MAR 01	3 270	1984
1985	12.4 AT 12:00 CST ON MAR 25	11.4 B ON MAR 25	0 B ON MAR 01	8 650	1985
1986	30.7 AT 14:00 CST ON APR 01	30.6 ON APR 01	0 B ON MAR 01	24 700	1986
1987	55.3 AT 16:14 CST ON APR 09	54.6 ON APR 09	0 B ON MAR 01	32 700	1987
1988	2.47B AT 11:21 CST ON APR 07	2.23 ON APR 08	0 B ON MAR 01	1 610	1988
1989	31.1 AT 14:31 CST ON APR 23	29.8 ON APR 23	0 B ON MAR 01	19 100	1989
1990	7.51 AT 17:48 CST ON APR 13	7.18 B ON APR 14	0 B ON MAR 01	8 970	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		31 500	MEAN

MARY JANE CREEK AT LA RIVIERE - STATION NO. 05OB013

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.002	3.15	0.094	0.038	0.008	0.006	0.008	0.012	---	---	0.807	1960
1961	---	---	0.190	0.301	0.051	0.026	0.022	0.024	0.035	0.036	---	---	0.142	1961
1962	---	---	0	2.08	0.150	0.046	0.025	0.019	0.016	0.013	---	---	0.560	1962
1963	---	---	0.142	0.072	0.041	0.106	0.049	0.034	0.029	0.025	---	---	0.091	1963
1964	---	---	0.028	0.524	0.071	0.024	0.032	0.025	0.022	0.018	---	---	0.160	1964
1965	---	---	0	1.63	0.124	0.030	0.013	0.010	0.016	0.019	---	---	0.441	1965
1966	---	---	1.04	1.49	0.541	0.036	0.012	0.006	0.006	0.006	---	---	0.702	1966
1967	---	---	0.015	1.70	0.246	0.011	0.011	0	0	0	---	---	0.488	1967
1968	---	---	0.935	0.405	0.284	0.115	0.413	0.944	0.311	0.068	---	---	0.388	1968
1969	---	---	0.018	4.76	0.140	0.165	0.362	0.025	0.014	0.013	---	---	1.25	1969
1970	---	---	0	4.71	1.53	0.117	0.181	0.027	0.017	0.012	---	---	1.57	1970
1971	---	---	0	0.781	0.089	0.040	0.010	0.010	0.010	0.018	---	---	0.224	1971
1972	---	---	1.60	2.13	0.091	0.021	0.014	0.012	0.011	0.011	---	---	0.959	1972
1973	---	---	0.019	0.014	0.019	0.021	0.020	0.014	0.008	0.006	---	---	0.018	1973
1974	---	---	0.002	4.35	1.93	0.079	0.010	0.008	0.003	0.004	---	---	1.58	1974
1975	---	---	0	0.691	0.197	0.077	0.091	0.009	0.004	0.003	---	---	0.239	1975
1976	---	---	0.002	3.16	0.096	0.015	0.003	0.001	0	0	---	---	0.805	1976
1977	---	---	0	0	0.050	0.118	0.020	0	0.068	0.043	---	---	0.042	1977
1978	---	---	0.026	1.77	0.138	0.038	---	---	---	---	---	---	0.487	1978
1979	---	---	0.001	2.08	0.915	0.343	---	---	---	---	---	---	0.829	1979
1980	---	---	0.001	0.376	0.091	0.049	---	---	---	---	---	---	0.128	1980
1981	---	---	0.087	0.025	0.021	0.009	---	---	---	---	---	---	0.036	1981
1982	---	---	0.023	0.516	0.024	0.028	---	---	---	---	---	---	0.146	1982
MEAN	---	---	0.180	1.57	0.301	0.067	0.072	0.065	0.032	0.017	---	---	0.526	MEAN

LOCATION - LAT 49 14 21 N DRAINAGE AREA, 138 km²
LONG 098 40 28 W REGULATED

MARY JANE CREEK AT LA RIVIERE - STATION NO. 05OB013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	13.8 ON APR 12	0 B ON MAR 01 *	8 510	1960
1961	---	1.20 B ON MAR 29	0.017 ON JUN 25	1 490	1961
1962	---	11.2 ON APR 18	0 B ON MAR 01	5 910	1962
1963	---	0.654B ON MAR 25	0 B ON MAR 01	954	1963
1964	---	3.57 ON APR 11	0.008 ON JUN 09	1 690	1964
1965	---	8.55 B ON APR 12	0 B ON MAR 01	4 640	1965
1966	---	3.77 B ON MAR 30	0 B ON MAR 01	7 400	1966
1967	---	10.7 R ON APR 21	0 B ON MAR 01	5 140	1967
1968	---	3.71 ON MAR 27	0 B ON MAR 01	4 090	1968
1969	---	32.0 ON APR 10 *	0.014B ON MAR 01	13 200	1969
1970	---	27.8 ON APR 25	0 B ON MAR 01	16 600	1970
1971	---	3.09 ON APR 19	0 B ON MAR 01	2 370	1971
1972	---	3.62 B ON MAR 21	0 B ON MAR 01	10 100	1972
1973	---	0.051 ON MAR 24	0 B ON MAR 01	193	1973
1974	---	21.0 ON APR 17	0.002B ON MAR 01	16 700	1974
1975	---	1.94 B ON APR 13	0 B ON MAR 01	2 520	1975
1976	---	14.8 ON APR 07	0.002B ON MAR 01	8 490	1976
1977	---	0.351 ON JUN 20	0 B ON MAR 01	439	1977
1978	---	5.75 ON APR 08	0.005B ON MAR 01	5 130	1978
1979	---	12.0 E ON APR 22	0 B ON APR 11	8 740	1979
1980	---	1.82 ON APR 07	0 ON MAR 31	1 350	1980
1981	---	0.231B ON MAR 16	0 B ON MAR 01	379	1981
1982	1.86B AT 12:00 CST ON APR 13 *	1.44 B ON APR 13	0 B ON MAR 01	1 540	1982
				5 550	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1989

MCKINNON CREEK NEAR MCCREARY - STATION NO. 05LJ027

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0	0.383	0.679	0.180	0.069	0.022	0.052	0.391	---	---	0.222	1959
1960	---	---	0	1.29	1.04	0.303	0.032	0.056	0.030	0.089	---	---	0.352	1960
1961	---	---	0.017	0.315	0.438	0.034	0.002	0	0	0.008	---	---	0.102	1961
1962	---	---	0	0.355	0.498	0.349	0.079	0.037	0.026	0.082	---	---	0.177	1962
1963	---	---	0.315	2.05	0.622	0.825	0.097	0.041	0.067	0.047	---	---	0.502	1963
1964	---	---	0	0.774	0.342	0.074	0.039	0.014	0.017	0.021	---	---	0.159	1964
1965	---	---	0.014	0.549	1.18	0.403	0.133	0.073	0.709	0.192	---	---	0.405	1965
1966	---	---	0.262	0.822	0.710	0.148	0.071	0.096	0.038	0.063	---	---	0.275	1966
1967	---	---	0.029	0.845	1.45	0.168	0.073	0.026	0.001	0.073	---	---	0.333	1967
1968	---	---	0.056	0.391	0.385	0.222	0.224	0.209	0.140	0.102	---	---	0.216	1968
1969	---	---	0	1.43	0.386	0.835	0.565	0.097	0.126	0.151	---	---	0.445	1969
1970	---	---	0.037	0.848	2.54	0.651	0.267	0.069	0.115	0.179	---	---	0.589	1970
1971	---	---	0	1.10	0.341	1.61	0.352	0.086	0.086	0.508	---	---	0.505	1971
1972	---	---	0.059	1.02	0.849	0.193	0.076	0.054	0.030	0.041	---	---	0.289	1972
1973	---	---	0.092	0.282	0.312	0.443	0.066	0.110	0.235	0.301	---	---	0.229	1973
1974	---	---	0	1.68	2.32	0.502	0.148	0.078	0.078	0.088	---	---	0.610	1974
1975	---	---	0	0.708	1.01	1.04	0.137	0.877	3.11	0.959	---	---	0.972	1975
1976	---	---	0.001	3.41	0.519	0.598	0.120	0.052	0.036	0.043	---	---	0.589	1976
1977	---	---	0.008	0.186	0.212	0.093	0.414	0.063	0.376	0.153	---	---	0.188	1977
1978	---	---	0.008	0.965	0.337	0.128	0.061	0.025	0.080	0.084	---	---	0.209	1978
1979	---	---	0.003	0.813	2.13	0.403	0.092	0.051	0.044	0.053	---	---	0.448	1979
1980	---	---	0.001	0.524	0.098	0.029	0.021	0.068	0.091	0.171	---	---	0.124	1980
1981	---	---	0.146	0.239	0.342	0.519	0.099	0.058	0.044	0.075	---	---	0.189	1981
1982	---	---	0.010	1.47	0.546	0.176	0.063	0.034	0.072	0.134	---	---	0.309	1982
1983	---	---	0	1.18	0.903	0.549	0.670	0.072	0.095	0.074	---	---	0.441	1983
1984	---	---	0.062	0.280	0.517	0.540	0.163	0.002	0.110	0.316	---	---	0.249	1984
1985	---	---	0.138	1.24	0.286	0.591	0.237	0.393	0.248	0.348	---	---	0.431	1985
1986	---	---	0.272	1.35	2.23	0.302	0.321	0.105	0.061	0.105	---	---	0.593	1986
1987	---	---	0.421	0.951	0.156	0.070	0.032	0.031	0.023	0.055	---	---	0.216	1987
1988	---	---	0.010	0.429	0.448	0.014	0.001	0.001	0.004	0.056	---	---	0.120	1988
1989	---	---	0.003	0.223	0.120	0.427	0.048	0.042	0.037	0.042	---	---	0.116	1989
1990	---	---	0.031	1.23	1.70	0.602	0.151	0.039	0.024	0.040	---	---	0.476	1990
MEAN	---	---	0.062	0.917	0.801	0.407	0.154	0.093	0.194	0.158	---	---	0.346	MEAN

LOCATION - LAT 50 48 00 N LONG 099 28 46 W
DRAINAGE AREA, 78.2 km^2
NATURAL FLOW

MCKINNON CREEK NEAR MCCREARY - STATION NO. 05LJ027

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	5.38 AT 21:30 CST ON MAY 03	2.61 ON MAY 04	0 B ON MAR 01 *	4 700	1959
1960	5.18 AT 19:45 CST ON MAY 26	3.74 ON APR 21	0 B ON MAR 01	7 460	1960
1961	---	1.24 ON APR 30	0 B ON MAR 01	2 150	1961
1962	4.02 AT 07:10 CST ON MAY 30	3.45 ON MAY 30	0 B ON MAR 01	3 760	1962
1963	11.3 AT 19:00 CST ON APR 16	6.46 ON JUN 10	0 B ON MAR 01	10 600	1963
1964	4.69B AT 02:10 CST ON APR 25	4.36B ON APR 25	0 B ON MAR 01	3 360	1964
1965	9.01 AT 01:00 CST ON APR 30	5.07 ON APR 30	0.014B ON MAR 01	8 580	1965
1966	---	1.88 ON MAY 05	0.011B ON MAR 01	5 830	1966
1967	---	3.03 ON MAY 07	0 ON AUG 27	7 050	1967
1968	3.31 AT 00:30 CST ON APR 21	2.13 ON APR 21	0 B ON MAR 01	4 570	1968
1969	9.83 AT 08:35 CST ON JUN 27	7.59B ON APR 13	0 B ON MAR 01	9 410	1969
1970	8.61 AT 01:42 CST ON MAY 08	6.43 ON MAY 07	0.034 ON SEP 10	12 500	1970
1971	12.0 AT 13:29 CST ON JUN 06	9.34 ON JUN 06	0 B ON MAR 01	10 700	1971
1972	---	3.85B ON APR 25	0 B ON MAR 01	6 120	1972
1973	4.64 AT 20:40 CST ON JUN 20	2.86 ON JUN 20	0.011 ON JUL 23	4 850	1973
1974	8.52 AT 01:26 CST ON MAY 12	6.71 ON APR 27	0 B ON MAR 01	12 900	1974
1975	29.7 AT 10:07 CST ON SEP 19 *	28.6 ON SEP 19 *	0 B ON MAR 01	20 600	1975
1976	---	8.38B ON APR 06	0 B ON MAR 01	12 500	1976
1977	10.5 AT 00:52 CST ON JUL 12	4.81 ON JUL 12	0 B ON MAR 01	3 980	1977
1978	3.65 AT 00:08 CST ON APR 26	3.00 ON APR 24	0 B ON MAR 01	4 420	1978
1979	8.95 AT 06:01 CST ON MAY 17	7.27 ON MAY 17	0.003B ON MAR 01	9 490	1979
1980	2.01 AT 01:33 CST ON APR 19	1.35 ON APR 19	0 ON JUN 26	2 630	1980
1981	2.05 AT 20:30 CST ON JUN 15	1.36 ON JUN 16	0 B ON MAR 01	4 000	1981
1982	7.78B AT 22:17 CST ON APR 22	4.44 ON APR 23	0 B ON MAR 01	6 550	1982
1983	8.84B AT 23:43 CST ON APR 24	5.36B ON APR 24	0 B ON MAR 01	9 330	1983
1984	6.96 AT 13:01 CST ON JUN 23	5.09 ON JUN 23	0 B ON MAR 01	5 270	1984
1985	3.56B AT 15:46 CST ON APR 20	2.81B ON APR 21	0 B ON MAR 01	9 130	1985
1986	20.4 AT 03:49 CST ON MAY 06	16.6 ON MAY 06	0 B ON MAR 01	12 600	1986
1987	3.26B AT 00:53 CST ON APR 08	2.92B ON APR 08	0.001 ON SEP 08	4 570	1987
1988	2.78B AT 06:55 CST ON APR 17	1.92 ON MAY 03	0 B ON MAR 01	2 540	1988
1989	11.4 AT 03:32 CST ON JUN 13	6.72 ON JUN 13	0.001B ON MAR 01	2 460	1989
1990	20.4 AT 19:11 CST ON MAY 16	10.1 ON MAY 16	0 B ON MAR 01	10 100	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		7 330	MEAN

MEDORA CREEK NEAR NAPINKA - STATION NO. 05NG020

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	0.378	0.125	0.079	0.071	0.020	0	0	0	---	---	0.084	1966
1967	---	---	0.002	0.220	0.099	0	0	0	0	0	---	---	0.040	1967
1968	---	---	0.023	0.007	0	0	0	0.136	0.237	0.029	---	---	0.054	1968
1969	---	---	0	2.99	0.415	0.115	0.170	0.024	0	0	---	---	0.457	1969
1970	---	---	0	1.36	0.520	0.010	0.001	0	0	0	---	---	0.234	1970
1971	---	---	0	0.183	0.007	0.365	0.386	0	0	0.003	---	---	0.117	1971
1972	---	---	0.973	0.214	0.038	0.136	0.084	0.020	0.022	0.001	---	---	0.187	1972
1973	---	---	0.015	0.005	0.013	0.004	0.001	0	0	0	---	---	0.005	1973
1974	---	---	0	2.94	0.708	0.096	0.009	0	0	0	---	---	0.462	1974
1975	---	---	0	3.64	1.10	0.144	0.026	0.123	0.097	0.206	---	---	0.659	1975
1976	---	---	0	8.80	0.329	0.176	0.011	0	0	0	---	---	1.14	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.377	0.008	0.003	0	0	0	0	---	---	0.048	1978
1979	---	---	0	1.05	0.139	0.006	0	0	0	0	---	---	0.147	1979
1980	---	---	0	0.009	0.002	0	0	0	0	0	---	---	0.001	1980
1981	---	0.082	0.048	0	0	0	0	0	0	0	---	---	0.006	1981
1982	---	---	0	1.85	0.001	0.006	0	0	0	0	---	---	0.228	1982
1983	---	---	0.292	1.16	0.004	0	0	0	0	0	---	---	0.180	1983
1984	---	---	0.072	0.003	0.072	0.012	0	0	0	0	---	---	0.020	1984
1985	---	---	2.76	0.387	0.005	0.202	0.086	0	0	0.004	---	---	0.434	1985
1986	---	---	0.448	0.128	0.122	0.001	0	0	0	0	---	---	0.088	1986
1987	---	---	1.48	0.231	0.001	0	0	0.156	0.003	0.001	---	---	0.236	1987
1988	---	---	0.006	0.035	0	0	0	0	0	0	---	---	0.005	1988
1989	---	---	0.139	0.966	0.002	0	0	0	0	0	---	---	0.136	1989
1990	---	---	0	0.062	0	0	0.043	0	0	0	---	---	0.013	1990
MEAN	---	0.082	0.265	1.07	0.147	0.054	0.033	0.018	0.014	0.010	---	---	0.199	MEAN

LOCATION - LAT 49 19 30 N DRAINAGE AREA, 317 km^2
LONG 100 42 10 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.510 AND 0 M3/S OCCURRED IN FEB

MEDOVA CREEK NEAR NAPINKA - STATION NO. 05NG020

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	1.70 E ON MAR 16	0E ON MAR 01 *	1 790	1966
1967	---	0.997 ON APR 06	0B ON MAR 01	840	1967
1968	---	0.998 ON AUG 26	0B ON MAR 01	1 140	1968
1969	---	16.3 ON APR 10	0B ON MAR 01	9 680	1969
1970	---	3.99 ON APR 08	0B ON MAR 01	4 960	1970
1971	---	1.43 ON JUN 23	0B ON MAR 01	2 480	1971
1972	---	4.30 ON MAR 21	0B ON MAR 01	3 950	1972
1973	---	0.065B ON MAR 22	0B ON MAR 01	101	1973
1974	---	8.75 B ON APR 18	0B ON MAR 01	9 780	1974
1975	---	12.7 ON APR 14	0B ON MAR 01	13 900	1975
1976	---	40.2 B ON APR 04 *	0B ON MAR 01	24 200	1976
1977	---	0 B ON MAR 01	0B ON MAR 01	0	1977
1978	---	2.92 B ON APR 06	0B ON MAR 01	1 010	1978
1979	---	12.3 ON APR 21	0B ON MAR 01	3 120	1979
1980	0.055 AT 06:16 CST ON APR 08	0.053 ON APR 18	0B ON MAR 01	29.5	1980
1981	---	0.232B ON MAR 01	0 ON MAR 25	129	1981
1982	14.2 AT 11:01 CST ON APR 14	11.5 ON APR 14	0B ON MAR 01	4 820	1982
1983	7.77 B AT 13:09 CST ON APR 02	3.52 B ON APR 04	0B ON MAR 01	3 810	1983
1984	1.33 AT 13:02 CST ON MAY 05	0.585B ON MAR 25	0B ON MAR 01	423	1984
1985	12.0 B AT 09:41 CST ON MAR 19	10.5 B ON MAR 22	0B ON MAR 01	9 180	1985
1986	2.53 B AT 12:14 CST ON MAR 18	2.14 B ON MAR 18	0B ON MAR 01	1 860	1986
1987	14.6 AT 02:45 CST ON MAR 23 *	12.7 ON MAR 23	0B ON MAR 01	4 990	1987
1988	0.331 AT 10:51 CST ON APR 04	0.295 ON APR 04	0B ON MAR 01	105	1988
1989	10.1 B AT 16:44 CST ON APR 02	7.65 B ON APR 02	0B ON MAR 01	2 880	1989
1990	2.15 AT 10:29 CST ON APR 03	0.860B ON APR 03	0B ON MAR 01	275	1990
				4 220	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

METCHANAIS CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	822	949	934	---	---	1 260	---	---	1 030	---	---	---	---	1971
1972	725	714	754	883	1 170	1 250	1 180	1 110	1 010	942	844	687	940	1972
1973	614	630	620	726	888	1 250	1 400	1 380	1 240	1 110	---	---	---	1973
MEAN	720	764	769	805	1 030	1 250	1 290	1 250	1 090	1 030	844	687	940	MEAN

LOCATION - LAT 54 23 10 N
LONG 098 08 00 W
NATURAL FLOW

METCHANAIS CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	1 300 AT 17:16 CST ON MAY 28	1 300 ON JUN 12	---	---	1971
1972	1 310 AT 12:31 CST ON MAY 30	1 290 ON MAY 21	---	---	1972
1973	1 470 AT 17:01 CST ON JUL 11 *	1 450 ON JUL 12 *	626B ON DEC 31 *	29 700 000	1973
			---	---	
				29 700 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MINK CREEK NEAR ETHELBERT - STATION NO. 05LJ019

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	---	1.96	3.10	0.895	0.101	1.19	0.552	0.474	---	---	1954
1955	---	---	---	3.80	1.27	0.721	0.048	0	0.020	0.040	---	---	---	1955
1956	---	---	0.044	1.50	1.98	0.416	0.278	0.041	0.130	0.119	---	---	0.563	1956
1957	---	---	0.076	2.02	0.532	0.184	0.049	0.060	0.061	0.071	---	---	0.377	1957
1958	---	---	0.079	0.585	0.167	0.095	0.081	0.030	0.095	0.072	---	---	0.150	1958
1959	---	---	0.206	0.649	0.376	0.561	0.185	0.042	0.068	0.156	---	---	0.279	1959
1960	---	---	0	2.62	1.07	0.438	0.057	0.029	0.028	0.079	---	---	0.533	1960
1961	---	---	0.005	0.073	0.147	0.051	0.014	0	0.100	0.099	---	---	0.061	1961
1962	---	---	0.011	0.267	0.092	0.072	0.042	0.032	0.038	0.043	---	---	0.074	1962
1963	---	---	0.132	0.539	0.345	0.317	0.153	0.021	0.029	0.044	---	---	0.196	1963
1964	---	---	0.025	0.583	0.363	0.038	0.011	0.021	0.024	0.056	---	---	0.139	1964
1965	---	---	0	0.669	0.520	0.238	0.239	0.301	0.367	0.207	---	---	0.316	1965
1966	---	---	0.367	2.09	0.759	0.454	0.205	0.062	0.030	0.043	---	---	0.497	1966
1967	---	---	0	0.591	1.22	0.120	0.022	0.019	0.004	0.033	---	---	0.251	1967
1968	---	---	0.145	0.356	0.118	0.050	0.027	0.037	0.031	0.042	---	---	0.100	1968
1969	---	---	0.009	0.631	0.235	0.186	0.465	0.105	0.029	0.147	---	---	0.225	1969
1970	---	---	0.028	1.32	1.77	0.618	0.468	0.087	0.045	0.124	---	---	0.557	1970
1971	---	---	0.065	1.51	0.250	0.500	0.090	0.025	0.028	0.093	---	---	0.315	1971
1972	---	---	0.041	1.39	0.625	0.059	0.027	0.018	0.011	0.035	---	---	0.273	1972
1973	---	---	0.093	0.153	0.139	0.251	0.052	0.014	0.096	0.118	---	---	0.114	1973
1974	---	---	0	2.45	2.81	0.451	0.017	0.015	0.057	0.079	---	---	0.733	1974
1975	---	---	0	1.58	1.04	1.06	0.034	0.062	0.429	0.258	---	---	0.552	1975
1976	---	---	0.004	2.38	0.306	4.37	0.109	0.016	0.011	0.025	---	---	0.805	1976
1977	---	---	0.017	0.179	0.239	0.074	0.112	0.046	0.302	0.192	---	---	0.145	1977
1978	---	---	0.032	0.677	0.253	0.129	0.016	0.018	0.048	0.067	---	---	0.153	1978
1979	---	---	0.029	2.29	1.84	0.356	0.006	0.001	0.021	0.052	---	---	0.570	1979
1980	---	---	0.024	0.545	0.051	0.023	0.016	0.046	0.048	0.056	---	---	0.100	1980
1981	---	---	0.075	0.174	0.123	0.142	0.134	0.019	0.033	0.069	---	---	0.096	1981
1982	---	---	0.029	0.517	0.135	0.055	0.107	0.035	0.018	0.108	---	---	0.125	1982
1983	---	---	0	1.49	0.976	0.805	0.294	0.010	0.006	0.062	---	---	0.451	1983
1984	---	---	0.141	0.281	0.700	1.32	0.026	0	0.015	0.161	---	---	0.328	1984
1985	---	---	0.093	2.00	0.143	0.371	0.074	0.479	0.176	0.136	---	---	0.428	1985
1986	---	---	0.924	2.00	2.85	0.121	0.207	0.113	0.099	0.132	---	---	0.806	1986
1987	---	---	0.073	2.36	0.120	0.134	0.080	0.023	0.096	0.099	---	---	0.367	1987
1988	---	---	0.053	2.14	2.79	0.106	0.032	0.040	0.011	0.043	---	---	0.651	1988
1989	---	---	0.005	0.243	0.105	0.480	0.046	0.156	0.061	0.085	---	---	0.146	1989
1990	---	---	0.027	2.78	1.91	0.221	0.101	0.016	0.001	0.028	---	---	0.630	1990
MEAN	---	---	0.081	1.26	0.820	0.502	0.130	0.058	0.107	0.103	0.474	---	0.348	MEAN

LOCATION - LAT 51 25 00 N LONG 100 21 10 W DRAINAGE AREA, 131 km² NATURAL FLOW

REMARKS - PUBLISHED AS "MINK RIVER" PRIOR TO 1979

MINK CREEK NEAR ETHELBERT - STATION NO. 05LJ019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	---	---	---	1954
1955	---	17.8 ON APR 05	0 ON JUN 29 *	---	1955
1956	---	7.62 B ON APR 30	0 B ON MAR 01	11 900	1956
1957	---	8.61 ON APR 25	0 ON JUL 29	7 980	1957
1958	---	1.10 ON APR 14	0 B ON MAR 01	3 180	1958
1959	2.01 AT 17:00 CST ON JUN 29	1.95 ON JUN 29	0 B ON MAR 01	5 900	1959
1960	13.5 B AT 00:00 CST ON APR 13	11.8 B ON APR 12	0 B ON MAR 01	11 300	1960
1961	---	0.249A ON SEP 05	0 B ON MAR 01	1 290	1961
1962	---	1.33 B ON APR 19	0 B ON MAR 01	1 570	1962
1963	---	1.42 ON APR 10	0 B ON MAR 01	4 150	1963
1964	---	1.45 B ON APR 24	0 A ON JUL 19	2 950	1964
1965	---	1.78 B ON APR 13	0 B ON MAR 01	6 700	1965
1966	---	12.5 B ON APR 02	0.023 ON SEP 08	10 500	1966
1967	---	3.77 B ON APR 28	0 B ON MAR 01	5 300	1967
1968	---	0.850B ON MAR 29	0.011 ON AUG 14	2 120	1968
1969	---	3.31 B ON APR 15	0.006B ON MAR 01	4 770	1969
1970	5.72 B AT 00:00 CST ON APR 26	4.45 B ON APR 26	0.012 ON AUG 26	11 800	1970
1971	0.67 B AT 01:24 CST ON APR 11	6.60 B ON APR 11	0 ON SEP 01	6 680	1971
1972	---	5.13 B ON APR 18	0 ON AUG 28	5 780	1972
1973	2.51 AT 14:12 CST ON AUG 10	0.796 ON JUN 21	0 ON AUG 26	2 410	1973
1974	---	15.7 B ON APR 19	0 B ON MAR 01	15 500	1974
1975	---	5.95 B ON APR 20	0 B ON MAR 01	11 700	1975
1976	44.2 AT 23:19 CST ON JUN 13 *	32.3 ON JUN 14 *	0.003B ON MAR 01	18 700	1976
1977	0.968 AT 18:56 CST ON SEP 27	0.932 ON SEP 27	0.013 ON AUG 20	3 060	1977
1978	---	1.41 ON APR 21	0 ON JUL 10	3 250	1978
1979	17.3 AT 00:00 CST ON APR 24	13.9 B ON APR 23	0 ON JUL 09	12 100	1979
1980	3.30 AT 11:13 CST ON OCT 28	1.57 B ON APR 08	0 ON JUN 17	2 110	1980
1981	0.991 AT 09:25 CST ON JUL 02	0.768 ON JUL 03	0 ON AUG 16	2 030	1981
1982	---	1.73 B ON APR 16	0 B ON MAR 01	2 640	1982
1983	---	8.31 B ON APR 24	0 B ON MAR 01	9 550	1983
1984	7.86 AT 20:12 CST ON JUN 24	7.27 ON JUN 24	0 B ON MAR 01	6 940	1984
1985	---	5.83 B ON APR 02	0 B ON MAR 01	9 070	1985
1986	10.6 AT 16:23 CST ON MAY 07	9.95 ON MAY 07	0 B ON MAR 01	17 100	1986
1987	11.5 AT 20:18 CST ON APR 06	9.55 B ON APR 06	0 ON JUN 18	7 760	1987
1988	16.6 AT 07:33 CST ON MAY 03	15.7 ON MAY 03	0 ON JUL 23	13 800	1988
1989	3.13 AT 18:28 CST ON JUN 13	2.73 ON JUN 13	0 B ON MAR 01	3 090	1989
1990	10.8 AT 21:43 CST ON MAY 16	9.44 A ON MAY 17	0 ON AUG 09	13 300	1990
				7 370	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MINK CREEK NEAR SIFTON - STATION NO. 05LJ048

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	1.08	0.021	0	0	0.001	0	0	---	---	0.135	1980
1981	---	---	0.052	0.042	0.024	0.548	0.217	0.004	0.001	0.002	---	---	0.110	1981
1982	---	---	0.074	0.812	0.104	0.010	0.052	0.008	0.001	0.050	---	---	0.137	1982
MEAN	---	---	0.042	0.645	0.050	0.186	0.090	0.004	0.001	0.017	---	---	0.127	MEAN

LOCATION - LAT 51 25 55 N LONG 100 01 00 W DRAINAGE AREA, 269 km² NATURAL FLOW

MINK CREEK NEAR SIFTON - STATION NO. 05LJ048

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	4.10A ON APR 10 *	0B ON MAR 01 *	2 860	1980
1981	4.51 AT 07:30 CST ON JUN 24 *	3.94 ON JUN 24	0 ON SEP 09	2 330	1981
1982	---	2.68B ON APR 15	0B ON MAR 01	2 910	1982
				2 700	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MINNEWASTA CREEK NEAR BEULAH - STATION NO. 05ME008

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0.020	0.146	0	0	---	---	---	---	---	---	0.041	1978
1979	---	---	0	0.981	1.15	0.234	---	---	---	---	---	---	0.592	1979
1980	---	---	0	0.084	0	0	---	---	---	---	---	---	0.021	1980
1981	---	0.007	0	0	0	0	---	---	---	---	---	---	0	1981
1982	---	---	0.017	0.387	0	0	---	---	---	---	---	---	0.100	1982
1983	---	---	0	0.651	0.290	0.026	---	---	---	---	---	---	0.240	1983
1984	---	---	0	0	0	0	---	---	---	---	---	---	0	1984
1985	---	---	0.022	0.579	0.002	0	---	---	---	---	---	---	0.148	1985
1986	---	---	0.579	2.11	0.695	0.068	---	---	---	---	---	---	0.857	1986
1987	---	---	0.008	1.09	0.243	0.015	---	---	---	---	---	---	0.336	1987
1988	---	---	0	0.085	0.060	0.004	0	---	---	---	---	---	0.037	1988
1989	---	---	0	0.031	0.001	0	---	---	---	---	---	---	0.008	1989
1990	---	---	0.023	0.567	0.231	0.031	---	---	---	---	---	---	0.212	1990
MEAN	---	0.007	0.048	0.479	0.190	0.027	0	0	0	0	---	---	0.185	MEAN

LOCATION - LAT 50 16 30 N LONG 101 00 55 W DRAINAGE AREA, 362 km² NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.025 AND 0 M3/S OCCURRED IN FEBRUARY

MINNEWASTA CREEK NEAR BEULAH - STATION NO. 05ME008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	0 B ON MAR 01	0B ON MAR 01 *	0	1977
1978	0.702B AT 17:34 CST ON APR 10	0.467B ON APR 10	0B ON MAR 01	431	1978
1979	6.26 AT 07:35 CST ON APR 22	5.64 ON APR 22 *	0B ON MAR 01	6 240	1979
1980	0.437B AT 23:45 CST ON APR 09	0.352B ON APR 09	0B ON MAR 01	216	1980
1981	---	0 B ON MAR 01	0B ON MAR 01	0	1981
1982	---	1.29 ON APR 15	0B ON MAR 01	1 050	1982
1983	2.84 AT 01:00 CST ON APR 22	2.76 ON APR 22	0B ON MAR 01	2 530	1983
1984	---	0.001A ON MAR 26	0B ON MAR 01	0.086	1984
1985	2.85 AT 23:15 CST ON APR 02	1.39 ON APR 03	0B ON MAR 01	1 560	1985
1986	9.34 B AT 08:47 CST ON APR 01 *	5.50 B ON APR 01	0B ON MAR 01	9 030	1986
1987	5.62 AT 20:44 CST ON APR 06	5.04 ON APR 06	0B ON MAR 01	3 540	1987
1988	---	0.390E ON APR 05	0B ON MAR 01	393	1988
1989	0.292 AT 19:48 CST ON APR 06	0.204 ON APR 07	0B ON MAR 01	82.7	1989
1990	2.58 AT 13:26 CST ON APR 06	1.73 A ON APR 06	0B ON MAR 01	2 230	1990
				1 950	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOOSE RIVER NEAR MOOSE LAKE - STATION NO. 05KK007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	---	---	-12.	-40.	-5	22.0	32.8	44.9	---	1971
1972	44.5	52.7	54.7	53.6	-8.3	-1	-45	-44.	-7	23.0	36.8	---	---	1972
1973	50.2	57.3	58.3	59.0	12.4	-41	-38	4.04	-15	-29.	17.4	37.3	14.0	1973
MEAN	47.3	55.0	56.5	56.3	2.0	-21	-31	-26.	-9	5.1	29.0	41.1	14.0	MEAN

LOCATION - LAT 53 38 00 N LONG 100 19 00 W DRAINAGE AREA, 9 170 km² REGULATED SINCE 1964

MOOSE RIVER NEAR MOOSE LAKE - STATION NO. 05KK007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	---	---	---	1971
1972	---	---	---	---	1972
1973	---	63.7 ON APR 05 *	-55A ON JUL 02 *	442 000	1973
				442 000	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MORRIS RIVER AT ROSENORT - STATION NO. 05OF002

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1922	---	---	---	---	3.98	---	---	---	---	---	---	---	---	1922
1923	---	---	---	---	8.15	---	---	---	---	---	---	---	---	1923
1925	---	---	---	---	1.26	---	---	---	---	---	---	---	---	1925
1963	---	---	0.005	3.24	1.98	13.1	1.61	0.588	0	0	---	---	2.53	1963
1964	---	---	0	8.36	1.05	1.44	0.213	0.155	2.09	0	---	---	1.63	1964
1965	---	---	0	33.3	3.63	1.47	0	0	0	0	---	---	4.71	1965
1968	---	---	0.411	3.09	1.94	0.519	2.01	10.7	4.53	0.627	---	---	2.98	1968
MEAN	---	---	0.104	12.0	3.14	4.13	0.958	2.86	1.66	0.157	---	---	2.96	MEAN

LOCATION - LAT 49 27 30 N
LONG 097 26 15 W
DRAINAGE AREA, 2 240 km²
NATURAL FLOW

MORRIS RIVER AT ROSENORT - STATION NO. 05OF002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1922	---	---	---	---	1922
1923	---	---	---	---	1923
1925	---	---	---	---	1925
1963	---	56.9 ON JUN 07	0B ON MAR 01 *	53 500	1963
1964	---	41.9B ON APR 16	0B ON MAR 01	34 600	1964
1965	---	122 ON APR 16 *	0B ON MAR 01	99 800	1965
1968	---	50.1E ON AUG 28	0B ON MAR 01	63 100	1968
				62 800	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MORRIS RIVER NEAR ROSENORT - STATION NO. 05OF020

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	32.0	8.12	2.95	12.8	1.63	0.460	0.107	---	---	7.20	1969
1970	---	---	0	40.7	39.5	2.39	---	---	---	---	---	---	---	1970
1971	---	---	0	25.9	2.36	1.64	1.28	0.473	0.312	0.945	---	---	4.05	1971
1972	---	---	3.16	21.6	2.37	0.387	0.043	0.065	0.048	0.239	---	---	3.44	1972
1973	---	---	1.88	1.21	0.634	1.11	0.214	0.159	0.034	0.069	---	---	0.663	1973
1974	---	---	0.051	57.9	39.6	2.64	0.340	0.040	0.050	0.060	---	---	12.5	1974
1975	---	---	0.133	6.15	3.54	2.81	1.81	0.233	0.239	0.213	---	---	1.88	1975
1976	---	---	0.054	23.4	1.23	0.665	0.017	0.001	0.001	0.013	---	---	3.12	1976
1977	---	---	0.002	1.41	1.56	0.142	0.184	0.020	0.493	0.430	---	---	0.529	1977
1978	---	---	0.048	23.5	3.27	1.18	2.52	1.07	0.416	0.169	---	---	3.97	1978
1979	---	---	0	---	---	3.19	0.559	0.115	0.353	0.091	---	---	---	1979
1980	---	---	0.003	6.41	0.367	0.017	0.001	0	0.022	0.042	---	---	0.842	1980
1981	---	---	1.46	0.646	0.260	0.336	0.504	0.324	0.810	0.164	---	---	0.563	1981
1982	---	---	0.233	4.80	0.609	0.304	0.054	0.008	0	0.025	---	---	0.743	1982
1983	---	---	0.924	21.3	0.900	0.626	0.303	0.049	0.002	0.070	---	---	2.98	1983
1984	---	---	0.339	0.662	0.273	1.06	0.003	0.007	0	0.077	---	---	0.300	1984
1985	---	---	10.9	9.96	0.481	0.277	0.033	3.23	0.416	0.480	---	---	3.21	1985
1986	---	---	10.3	28.3	15.7	0.540	1.66	0.485	0.109	0.139	---	---	7.11	1986
1987	---	---	1.35	31.5	0.756	0.154	0.058	0.038	0.018	0.210	---	---	4.18	1987
1988	---	---	0.237	3.46	0.869	0.075	0	0	0	0	---	---	0.573	1988
1989	---	---	0	8.46	0.309	0.086	0.058	0.010	0	0	---	---	1.09	1989
1990	---	---	0.344	9.75	0.939	2.50	1.15	0.047	0.007	0	---	---	1.81	1990
MEAN	---	---	1.43	17.1	5.89	1.14	1.12	0.381	0.180	0.169	---	---	3.04	MEAN

LOCATION - LAT 49 29 22 N
LONG 097 28 51 W
DRAINAGE AREA, 2 200 km²
NATURAL FLOW

MORRIS RIVER NEAR ROSENORT - STATION NO. 05OF020

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	100 ON APR 15	0 B ON MAR 01 *	152 000	1969
1970	---	---	---	---	1970
1971	---	---	---	---	1971
1972	73.3 AT 06:10 CST ON APR 17	92.6 ON APR 12	0 B ON MAR 01	85 700	1972
1973	---	71.9 ON APR 17	0 B ON MAR 01	72 800	1973
1974	170 AT 22:07 CST ON APR 23 *	8.24 ON JUN 21	0 B ON MAR 01	14 000	1974
		167 ON APR 24 *	0.001 ON AUG 20	264 000	
1975	26.6 AT 22:01 CST ON APR 29	22.6 ON APR 30	0.001 ON AUG 02	39 700	1975
1976	82.1 AT 08:24 CST ON APR 10	81.0 ON APR 10	0 ON JUL 10	66 000	1976
1977	---	4.79B ON APR 10	0 B ON MAR 01	11 200	1977
1978	51.5B AT 01:06 CST ON APR 14	49.8 B ON APR 13	0 B ON MAR 01	84 100	1978
1979	---	---	0 B ON MAR 01	---	1979
1980	16.3B AT 19:57 CST ON APR 10	15.5 B ON APR 10	0 B ON MAR 01	17 800	1980
1981	---	3.70B ON MAR 28	0 A ON SEP 02	11 900	1981
1982	16.4 AT 21:20 CST ON APR 15	15.8 ON APR 15	0 B ON MAR 01	15 700	1982
1983	61.6B AT 09:06 CST ON APR 07	61.1 B ON APR 07	0 ON AUG 17	63 000	1983
1984	---	7.42E ON JUN 23	0 B ON MAR 01	6 340	1984
1985	45.0 AT 21:22 CST ON MAR 26	43.2 B ON MAR 26	0 B ON MAR 01	68 000	1985
1986	113 AT 06:26 CST ON APR 01	112 ON APR 01	0 B ON MAR 01	150 000	1986
1987	121 AT 02:26 CST ON APR 09	119 ON APR 09	0.001 ON AUG 09	88 600	1987
1988	14.1B AT 01:26 CST ON APR 06	13.1 B ON APR 06	0 ON JUN 27	12 100	1988
1989	---	29.5 B ON APR 20	0 B ON MAR 01	23 200	1989
1990	30.5B AT 22:13 CST ON APR 04	28.8 B ON APR 06	0 B ON MAR 01	38 400	1990
				64 200	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOSSY RIVER ABOVE FORK RIVER - STATION NO. 05LJ014

MONTHLY AND ANNUAL MEAN DISCHARGES FOR APR TO NOV IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	64.3	61.5	59.2	50.4	40.9	31.4	26.0	---	---	1948
1949	---	---	---	16.5	15.8	12.2	6.44	2.74	1.33	1.18	1.11	---	7.15	1949
1950	---	---	---	12.5	11.8	28.7	30.3	25.0	18.9	19.8	17.9	---	20.6	1950
1951	---	---	---	17.7	27.1	20.5	8.79	4.64	4.14	4.69	4.57	---	11.5	1951
1952	---	---	---	26.5	25.3	11.8	5.20	2.57	2.06	1.70	1.30	---	9.54	1952
1953	---	---	6.35	18.9	58.6	99.6	66.2	54.1	41.8	34.5	31.1	---	42.1	1953
1954	---	---	15.4	21.1	29.5	54.8	53.4	35.5	33.5	34.6	29.2	---	36.5	1954
1955	---	---	24.2	38.0	49.6	52.2	48.5	35.3	27.2	21.0	---	---	---	1955
1956	---	---	12.4	16.9	39.5	39.0	48.8	38.0	30.4	24.1	---	---	---	1956
MEAN	---	---	14.6	21.0	32.3	38.9	36.5	27.6	22.2	19.2	15.9	---	21.4	MEAN

LOCATION - LAT 51 30 13 N, LONG 099 59 45 W
DRAINAGE AREA, 9 030 km^2
REGULATED

MOSSY RIVER ABOVE FORK RIVER - STATION NO. 05LJ014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO NOV FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	---	---	---	1948
1949	---	89.8B ON APR 26	---	---	1949
		22.4 ON APR 04	0.283 ON OCT 30 *	151 000	
1950	---	50.4 ON OCT 23	4.50 ON MAY 08	435 000	1950
1951	---	36.2 ON MAY 01	2.55 ON SEP 13	243 000	1951
1952	---	31.1B ON APR 08	0.850 ON NOV 05	201 000	1952
1953	---	105 E ON JUN 05 *	12.5 ON APR 02	914 000	1953
1954	---	67.1 ON JUN 16	13.9 ON APR 10	769 000	1954
1955	---	61.7 ON JUN 24	---	---	1955
1956	---	51.5 ON JUL 15	---	---	1956
				452 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOSSY RIVER AT LACY'S FARM BELOW FISHING RIVER - STATION NO. 05LJ001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	24.4	23.2	23.1	30.8	45.0	40.5	31.3	---	1912
1913	---	---	---	---	---	---	---	34.8	26.1	20.1	18.4	18.8	---	1913
1914	16.8	16.1	14.5	13.9	19.7	20.2	14.8	---	---	---	---	---	---	1914
MEAN	16.8	16.1	14.5	13.9	19.7	22.3	19.0	29.0	28.5	32.5	29.5	25.0	---	MEAN

LOCATION - LAT 51 27 40 N, LONG 099 59 20 W
DRAINAGE AREA, 8 990 km^2
NATURAL FLOW

MOSSY RIVER AT LACY'S FARM BELOW FISHING RIVER - STATION NO. 05LJ001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	---	---	---	1913
1914	---	---	---	---	1914
				---	MEAN

MOSSY RIVER AT WILSON'S FARM BELOW FORK RIVER - STATION NO. 05LJ002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	---	---	14.0	9.55	7.78	6.78	6.23	4.81	---	1914
1915	4.25	4.53	8.50	7.35	5.07	5.00	5.83	3.56	2.80	3.08	2.26	1.84	4.51	1915
1916	0.490	0.416	0.397	2.65	6.59	27.1	19.6	12.1	9.42	9.57	6.47	3.68	8.22	1916
1917	6.46	6.16	8.43	12.5	17.4	15.0	20.0	11.6	9.36	7.22	7.70	4.99	10.8	1917
1918	3.77	3.98	8.88	10.2	9.57	10.6	7.72	6.77	5.34	5.05	4.27	2.35	6.55	1918
1919	1.77	1.49	2.96	8.65	7.49	5.87	5.53	4.03	3.25	3.21	3.62	1.88	4.15	1919
1920	0.908	0.941	1.01	13.8	27.2	19.5	14.2	8.56	6.36	5.58	5.72	5.59	9.13	1920
1921	5.55	6.71	7.02	12.3	16.6	33.1	18.8	18.9	22.7	19.3	22.6	16.2	16.8	1921
1922	14.2	12.2	10.3	39.0	50.5	36.3	30.5	28.0	22.5	17.6	17.9	19.6	24.9	1922
1923	18.2	18.0	19.7	---	---	---	---	---	---	---	---	---	---	1923
MEAN	6.18	6.27	7.47	13.3	17.5	19.0	15.1	11.5	9.95	8.60	8.53	6.99	10.6	MEAN

LOCATION - LAT 51 31 40 N LONG 099 59 30 W DRAINAGE AREA, 9 500 km² NATURAL FLOW

MOSSY RIVER AT WILSON'S FARM BELOW FORK RIVER - STATION NO. 05LJ002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	21.4 CN MAR 27	0.878 CN OCT 26	142 000	1915
1916	---	55.2 CN JUN 27	0.368B CA FEB 24 *	260 000	1916
1917	---	34.3 CN JUN 30	2.29 CN OCT 11	339 000	1917
1918	---	25.8 CN MAR 28	1.78 B CN DEC 31	207 000	1918
1919	---	14.7B CN APR 05	1.08 B CN DEC 30	131 000	1919
1920	---	52.4B CN APR 25	0.821B CN JAN 20	289 000	1920
1921	---	85.0 CN JUN 20 *	2.01 B CN FEB 16	531 000	1921
1922	---	64.6 CN MAY 15	9.97 B CN MAR 23	786 000	1922
1923	---	---	---	---	1923
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		336 000	MEAN

MOSSY RIVER BELOW OUTLET OF DAUPHIN LAKE - STATION NO. 05LJ025

MONTHLY AND ANNUAL MEAN DISCHARGES FOR JAN TO DEC IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	---	---	---	---	---	---	23.0	19.3	19.8	---	1956
1957	18.0	15.4	13.6	19.0	31.4	28.8	24.1	10.5	4.06	3.20	2.18	2.39	14.4	1957
1958	2.21	1.04	2.28	4.59	2.69	1.91	1.78	1.18	0.988	0.634	0.624	0.471	1.77	1958
1959	0.344	0.312	0.667	1.63	1.91	1.29	1.76	2.26	1.94	1.63	1.90	1.80	1.46	1959
1960	1.14	1.36	1.68	15.8	28.4	29.3	20.3	14.0	10.1	6.83	5.89	6.08	11.8	1960
1961	5.43	4.72	4.91	6.57	2.02	1.25	0.688	0.123	0.020	---	---	---	---	1961
1962	---	---	---	---	---	---	---	---	---	0.072	0.038	0.033	---	1962
1963	0.018	0	0.045	0.685	0.939	1.31	0.693	0.630	0.668	0.597	0.482	0.514	0.551	1963
1964	0.651	0.633	0.581	0.645	0.250	0.009	0.065	0.037	0.121	---	---	---	---	1964
1965	---	---	---	---	---	---	---	---	---	0.076	0.128	0.156	---	1965
1966	0.158	0.160	1.54	23.9	35.5	33.4	29.7	24.9	19.8	14.8	4.02	0.875	15.8	1966
1967	0.733	0.658	5.70	10.6	34.8	32.4	26.0	16.3	2.65	1.45	0.609	0.593	11.8	1967
1968	0.542	0.443	0.646	1.53	1.54	1.71	1.16	0.959	1.18	0.700	0.766	0.908	0.983	1968
1969	1.26	1.11	1.26	6.51	12.9	13.2	21.5	22.3	17.9	14.6	12.5	2.40	10.7	1969
1970	0.977	0.852	1.15	12.2	38.5	42.9	36.4	29.1	22.7	18.4	18.8	18.6	20.2	1970
1971	10.3	16.4	13.7	18.8	22.1	24.2	21.8	12.2	1.80	0.033	2.08	5.09	11.1	1971
1972	5.71	4.42	4.43	16.5	36.1	31.3	21.9	10.8	1.84	0.182	0.297	0.977	11.2	1972
1973	0.978	1.70	1.33	1.08	0.881	0.227	0.247	0.242	0.258	0.260	0.906	1.47	0.793	1973
1974	2.05	2.17	2.39	26.9	62.9	68.6	54.2	41.1	33.1	28.4	23.5	19.9	30.6	1974
1975	18.3	16.1	14.1	16.4	30.3	32.5	24.4	15.4	22.6	42.0	38.3	33.5	25.4	1975
1976	27.7	23.9	20.9	36.4	47.4	47.4	50.7	36.7	25.5	20.1	16.3	6.15	29.9	1976
1977	5.13	4.97	2.09	1.66	10.7	1.11	7.56	0.607	3.27	16.8	15.2	14.8	7.03	1977
1978	13.6	12.2	10.5	13.7	17.9	15.5	10.1	0.365	0.307	0.920	6.33	0.905	8.49	1978
1979	0.818	0.948	2.23	15.6	54.6	57.4	46.8	33.7	26.1	21.5	18.5	17.0	24.7	1979
1980	15.6	13.4	12.3	13.7	3.06	0.445	0.239	0.299	0.339	0.273	2.17	0.09	5.81	1980
1981	7.63	7.35	5.13	1.14	0.122	0.238	0.182	0.196	0.190	0.152	0.732	6.14	2.16	1981
1982	8.90	7.58	5.18	15.4	4.10	2.30	0.945	0.308	0.273	0.273	0.398	4.36	4.17	1982
1983	7.79	6.94	9.42	13.6	29.3	30.7	32.4	26.9	19.1	15.8	14.1	11.6	18.1	1983
1984	9.40	5.25	1.23	0.125	10.0	14.1	6.34	0.061	0.057	2.00	8.82	8.88	5.51	1984
1985	9.16	9.25	8.06	13.4	17.3	7.72	0.325	2.53	13.4	14.6	14.1	12.5	10.2	1985
1986	11.2	10.7	10.4	21.6	41.0	40.4	32.2	25.9	19.7	17.5	14.3	13.3	21.5	1986
1987	12.6	11.2	11.0	16.3	19.6	10.4	0.257	0.208	0.273	1.04	4.30	5.69	7.86	1987
1988	2.29	0.089	0.137	0.441	17.9	22.0	4.44	0.294	0.154	0.259	0.213	0.163	4.06	1988
1989	0.329	0.307	0.397	0.227	0.223	0.336	0.132	0.142	0.116	0.195	0.233	0.172	0.234	1989
1990	0.192	0.191	0.199	6.57	26.7	30.9	25.1	13.5	0.625	4.57	7.66	3.60	10.0	1990
MEAN	6.51	5.70	5.11	10.9	20.4	19.6	15.8	10.8	7.85	8.30	7.83	6.93	11.0	MEAN

LOCATION - LAT 51 27 00 N LONG 099 58 00 W DRAINAGE AREA, 8 700 km² REGULATED

MOSSY RIVER BELOW OUTLET OF DAUPHIN LAKE - STATION NO. 05LJ025

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR JAN TO DEC FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1956	---	---	---	---	1956
1957	37.1 AT 12:10 CST ON MAY 19	33.7 ON MAY 19	1.76 ON NOV 07	454 000	1957
1958	9.85 AT 12:40 CST ON APR 18	6.21 ON APR 18	0.311B ON DEC 30	55 800	1958
1959	17.7 AT 15:50 CST ON AUG 01	4.13 ON MAY 09	0.227B ON FEB 02	46 000	1959
1960	38.8 AT 07:30 CST ON JUN 17	34.5 ON JUN 07	0.991B ON JAN 14	372 000	1960
1961	---	7.36 A ON JAN 08	---	---	1961
1962	---	---	---	---	1962
1963	3.96 AT 06:10 CST ON JUN 22	2.30 ON JUN 21	0 E ON JAN 16 *	17 400	1963
1964	---	0.697B ON JAN 21	0 E ON JUN 21	---	1964
1965	---	---	---	---	1965
1966	39.6 AT 03:20 CST ON MAY 21	37.7 ON MAY 21	0.156B ON JAN 10	498 000	1966
1967	39.6 AT 23:00 CST ON MAY 21	37.9 ON MAY 21	0.122 ON OCT 24	371 000	1967
1968	---	3.82 ON MAY 06	0.143 ON MAY 12	31 100	1968
1969	---	27.3 ON AUG 05	0.334B ON MAR 26	337 000	1969
1970	---	49.0 ON MAY 24	0.501B ON MAR 11	636 000	1970
1971	---	29.7 ON JUN 14	0.012 ON OCT 28	412 000	1971
1972	---	41.6 ON JUN 01	0.127 ON OCT 17	368 000	1972
1973	---	2.80 B ON FEB 17	0.065 ON OCT 07	25 000	1973
1974	---	79.6 ON MAY 27 *	1.20 B ON JAN 01	965 000	1974
1975	---	48.7 ON OCT 05	3.17 ON AUG 25	800 000	1975
1976	---	61.4 ON JUN 23	3.77 ON DEC 19	946 000	1976
1977	---	22.5 ON OCT 22	0.218 ON AUG 10	222 000	1977
1978	---	26.3 ON JUN 09	0.113 ON JUL 29	268 000	1978
1979	69.2 AT 15:11 CST ON JUN 05 *	64.7 ON JUN 05	0.657B ON JAN 10	780 000	1979
1980	17.8 AT 08:31 CST ON JAN 12	17.5 ON JAN 12	0.139 ON JUN 26	184 000	1980
1981	11.2 AT 21:58 CST ON DEC 17	10.8 ON DEC 18	0.042E ON OCT 17	68 100	1981
1982	40.4 AT 13:15 CST ON MAY 23	17.6 ON MAY 23	0.015E ON OCT 31	131 000	1982
1983	38.2 AT 06:46 CST ON JUL 09	34.8 ON JUL 14	6.58 B ON FEB 17	572 000	1983
1984	23.1 AT 23:58 CST ON JUN 24	18.8 ON MAY 15	0.003 ON AUG 30	174 000	1984
1985	26.5 AT 20:04 CST ON OCT 16	21.3 ON MAY 03	0.073 ON AUG 18	321 000	1985
1986	24.6 AT 12:00 CST ON MAY 21	21.2 ON MAY 21	3.64 B ON NOV 08	680 000	1986
1987	29.2 AT 02:45 CST ON MAY 25	21.7 ON APR 30	0.153 ON AUG 30	248 000	1987
1988	31.9 AT 00:27 CST ON MAY 25	26.1 ON MAY 24	0.002B ON JAN 26	128 000	1988
1989	1.14 AT 09:22 CST ON JUN 14	1.02 ON JUN 14	0.015 ON AUG 28	7 370	1989
1990	38.1 AT 15:35 CST ON JUN 05	34.5 ON JUN 02	0.100 ON APR 19	317 000	1990
				347 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOWBRAY CREEK NEAR MOWBRAY - STATION NO. 05OB021

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	1.76	0.072	0.083	0.003	0	0	0	---	---	---	1962
1963	---	---	0.010	0.030	0.002	0.108	0.040	0.009	0.001	0	---	---	---	1963
1964	---	---	0	0.269	0.025	0.015	0.006	0	0	0	---	---	---	1964
1965	---	---	0	1.41	0.332	0.053	0.001	0	0	0	---	---	---	1965
1966	---	---	1.41	2.55	1.33	0.148	0.037	0.038	0.010	0	---	---	---	1966
1967	---	---	0.052	2.93	1.70	0.067	0.002	0	0	0	---	---	---	1967
1968	---	---	0.071	0.176	0.001	0	0	0	0	0	---	---	---	1968
1969	---	---	0	3.66	0.182	0.369	0.150	0.034	0	0	---	---	---	1969
1970	---	---	0	3.25	0.909	0.784	0.606	0.044	0.008	0.008	---	---	---	1970
1971	---	---	0	5.84	0.363	0.092	0.033	0	0	0	---	---	---	1971
1972	---	---	0.818	1.14	0.140	0.016	0	0	0	0	---	---	---	1972
1973	---	---	0.300	0.030	0	0	0	0	0	0	---	---	---	1973
1974	---	---	0	5.88	4.51	0.454	0.025	0	0	0	---	---	---	1974
1975	---	---	0	0.527	0.293	0.005	0.002	0	0	0	---	---	---	1975
1976	---	---	0	3.47	0.061	0.024	0.009	0.004	0	0	---	---	---	1976
1977	---	---	0.001	0.079	0.002	0	0	0	0.101	0	---	---	---	1977
1978	---	---	0.005	5.03	0.204	0.031	0.029	0.002	0	0	---	---	---	1978
1979	---	---	0	5.04	2.28	0.024	0.250	0.113	0.226	0.129	---	---	---	1979
1980	---	---	0.004	0.419	0.222	0.098	0.032	0.047	0.058	0.146	---	---	---	1980
1981	---	0.161	0.365	0.116	0.060	0.031	0.012	0.026	0.006	0.009	---	---	---	1981
1982	---	---	0.032	0.948	0.166	0.142	0.115	0.004	0	0.072	---	---	---	1982
1983	---	---	0.514	1.02	0.084	0.027	0.011	0.005	0	0	---	---	---	1983
1984	---	---	0.134	0.107	0.047	0.255	0.001	0	0	0	---	---	---	1984
1985	---	---	1.76	0.522	0.024	0.212	0.428	0.252	0.090	0.079	---	---	---	1985
1986	0	0	1.43	1.09	0.336	0.900	0.142	0.084	0.003	0.004	0	0	0.334	1986
1987	0	0	0	4.40	0.011	0.029	0	0.050	0.002	0.053	0.018	0.001	0.375	1987
1988	0	0.003	0.049	0.229	0.001	0	0	0	0	0	0	0	0.023	1988
1989	0	0	0	0.960	0.058	0.002	0	0	0	0	0	0	0.064	1989
1990	0	0	0.067	0.888	0.037	0.435	0.006	0.003	0	0	0	0	0.118	1990
MEAN	0	0.027	0.242	1.78	0.464	0.152	0.067	0.025	0.017	0.017	0.004	0	0.187	MEAN

LOCATION - LAT 49 00 00 N LONG 098 27 15 W
DRAINAGE AREA, 262 km^2
NATURAL FLOW
INTERNATIONAL GAUGING STATION

NOMBRAY CREEK NEAR NOMBRAY - STATION NO. 05OB021

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	---	---	---	1962
1963	---	---	---	---	1963
1964	---	---	---	---	1964
1965	---	---	---	---	1965
1966	---	---	---	---	1966
1967	---	---	---	---	1967
1968	---	---	---	---	1968
1969	---	---	---	---	1969
1970	---	---	---	---	1970
1971	---	---	---	---	1971
1972	---	---	---	---	1972
1973	---	---	---	---	1973
1974	19.0 AT 12:13 CST ON APR 21	---	---	---	1974
1975	---	---	---	---	1975
1976	12.9 AT 11:13 CST ON APR 07	---	---	---	1976
1977	0.824 AT 13:00 CST ON SEP 08	---	---	---	1977
1978	---	---	---	---	1978
1979	22.0 AT 00:00 CST ON APR 25	---	---	---	1979
1980	8.77 AT 00:26 CST ON MAY 29	---	---	---	1980
1981	3.57 AT 20:22 CST ON MAY 22	---	---	---	1981
1982	9.90 B AT 16:28 CST ON APR 14	---	---	---	1982
1983	---	---	---	---	1983
1984	1.92 AT 20:58 CST ON JUN 10	---	---	---	1984
1985	13.7 B AT 00:13 CST ON MAR 22	---	---	---	1985
1986	---	11.0 B ON MAR 28	0B ON JAN 01 *	10 500	1986
1987	26.7 B AT 04:56 CST ON APR 06 *	22.3 B ON APR 06 *	0B ON JAN 01	11 800	1987
1988	1.55 B AT 14:51 CST ON APR 03	1.11B ON APR 03	0B ON JAN 01	736	1988
1989	11.1 B AT 07:34 CST ON APR 19	6.57B ON APR 19	0B ON JAN 01	2 650	1989
1990	3.89 B AT 07:47 CST ON APR 07	3.29B ON APR 07	0 ON JAN 01	3 740	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		5 890	MEAN

NELSON RIVER (EAST CHANNEL) BELOW SEA RIVER FALLS - STATION NO. 05UB008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	---	---	---	361	307	177	---	1967
1968	174	175	165	220	330	380	385	383	406	383	394	260	305	1968
1969	281	300	312	422	596	597	592	577	575	580	521	412	481	1969
1970	398	398	393	481	675	720	761	682	554	483	457	357	531	1970
1971	365	372	371	469	668	659	578	524	448	400	293	305	455	1971
1972	319	316	320	496	673	648	563	487	402	348	297	302	453	1972
1973	197	232	275	355	367	388	456	436	366	356	231	187	321	1973
1974	---	177	294	474	699	879	883	814	708	---	---	---	---	1974
1975	362	401	392	445	675	702	718	711	654	531	404	274	523	1975
1976	246	241	250	362	420	426	424	451	358	216	92.4	86.7	298	1976
1977	84.1	83.8	84.4	115	183	---	180	176	185	226	165	125	---	1977
1978	118	121	129	171	449	503	551	546	541	495	387	236	355	1978
1979	177	182	222	282	440	587	569	549	532	447	292	207	375	1979
1980	213	214	216	324	472	477	508	488	478	400	304	208	359	1980
1981	176	173	186	240	315	349	424	430	386	330	211	151	282	1981
1982	133	126	121	171	385	483	552	583	463	375	289	212	326	1982
1983	197	196	185	208	441	514	558	547	473	420	323	210	357	1983
1984	204	199	193	280	393	447	482	462	342	313	181	147	304	1984
1985	145	153	167	194	329	398	490	529	557	554	502	409	370	1985
1986	138	144	159	214	330	413	543	535	443	420	316	189	393	1986
1987	185	180	186	341	476	519	521	506	461	343	259	172	341	1987
1988	110	115	140	162	287	354	356	284	251	192	150	124	209	1988
1989	110	115	133	174	283	345	414	399	349	265	195	155	246	1989
1990	129	123	130	163	306	392	475	495	433	350	187	123	277	1990
MEAN	212	212	223	304	452	512	520	504	451	382	288	213	359	MEAN

LOCATION - LAT 54 14 39 N
LONG 097 35 27 W

REGULATED SINCE 1973

NELSON RIVER (EAST CHANNEL) BELOW SEA RIVER FALLS - STATION NO. 05UB008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	---	---	---	1967
1968	---	---	---	---	1968
1969	680 AT 07:14 CST ON MAY 26	487 ON NOV 13 668 ON MAY 26	139 B ON MAR 25 273 B ON JAN 01	9 640 000 15 200 000	1969
1970	827 AT 15:03 CST ON AUG 09 *	807 ON JUL 22 *	328 ON OCT 03	16 700 000	1970
1971	759 AT 01:00 CST ON MAY 29	725 ON MAY 28	185 ON NOV 07	14 300 000	1971
1972	733 AT 12:07 CST ON MAY 19	728 ON MAY 15	183 B ON DEC 30	13 400 000	1972
1973	513 AT 12:10 CST ON JUL 12	498 ON JUL 12	167 B ON DEC 30	10 100 000	1973
1974	---	---	---	---	1974
1975	---	---	---	---	1975
1976	527 AT 14:00 CST ON AUG 18	790 ON AUG 07	254 B ON DEC 30	16 500 000	1976
1977	---	513 ON AUG 18	85.0B ON DEC 31 *	9 430 000	1977
1978	643 AT 15:20 CST ON SEP 23	---	---	---	1978
1979	667 AT 19:36 CST ON JUN 25	623 ON SEP 23 646 ON JUL 08	117 B ON JAN 15 169 B ON JAN 21	11 200 000 11 800 000	1979
1980	598 AT 09:40 CST ON AUG 29	570 ON AUG 29	182 B ON DEC 31	11 300 000	1980
1981	520 AT 14:10 CST ON SEP 23	499 ON SEP 23	140 RB ON DEC 30	8 880 000	1981
1982	763 AT 19:30 CST ON AUG 08	735 ON AUG 09	172 B ON MAR 15	10 300 000	1982
1983	---	621 ON AUG 03	146 B ON APR 11	11 200 000	1983
1984	567 AT 17:40 CST ON JUN 30	545 ON JUN 30	143 B ON DEC 28	9 610 000	1984
1985	686 AT 19:00 CST ON AUG 26	664 ON SEP 15	143 B ON JAN 01	11 700 000	1985
1986	619 AT 13:00 CST ON JUL 06	594 ON JUL 06	187 B ON DEC 25	12 400 000	1986
1987	581 AT 19:00 CST ON JUN 24	563 ON JUN 24	116 B ON DEC 31	10 700 000	1987
1988	438 AT 16:24 CST ON SEP 08	413 ON SEP 08	96.0E ON OCT 28	6 600 000	1988
1989	480 AT 17:00 CST ON JUL 25	457 ON JUL 22	109 B ON JAN 09	7 750 000	1989
1990	566 AT 15:35 CST ON JUL 28	548 ON AUG 13	109 B ON DEC 30	8 720 000	1990
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1989		11 300 000	MEAN

NELSON RIVER (WEST CHANNEL) AT JENPEG - STATION NO. 05UB009

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	2 860	2 700	2 550	2 340	---	---	---	1967
1968	---	---	---	---	---	2 390	2 400	2 390	2 470	---	---	---	---	1968
1969	---	---	---	---	2 850	2 810	2 830	2 770	2 770	---	---	---	---	1969
1972	1 810	1 770	1 850	2 050	2 750	2 980	2 780	2 600	2 340	2 160	1 910	1 700	2 230	1972
1973	1 490	1 460	1 490	1 670	---	---	---	---	---	---	---	---	---	1973
1976	2 060	1 830	1 740	1 980	3 080	2 600	2 040	1 400	1 330	2 000	1 780	1 610	1 950	1976
1977	1 410	1 330	1 300	833	664	826	730	767	784	1 180	1 880	1 610	1 110	1977
1978	1 560	1 480	1 410	1 390	856	613	562	715	1 070	2 120	2 270	2 310	1 360	1978
1979	2 060	1 970	1 930	1 960	2 890	3 480	3 440	1 120	1 050	1 940	2 430	1 960	2 190	1979
1980	1 790	1 760	1 670	1 350	517	666	486	628	691	1 690	1 970	2 050	1 270	1980
1981	1 930	1 710	1 090	569	469	492	658	652	1 070	1 920	2 190	1 800	1 210	1981
1982	1 680	1 520	1 410	1 300	1 020	752	850	1 110	1 860	2 220	2 140	2 030	1 490	1982
1983	1 970	1 820	1 600	1 630	1 270	932	1 110	1 150	1 720	1 780	2 100	1 790	1 580	1983
1984	1 750	1 620	1 600	1 330	974	983	1 140	1 150	1 350	1 640	1 880	1 880	1 440	1984
1985	1 780	1 700	1 630	1 520	1 110	1 250	1 290	1 210	1 420	1 950	2 210	2 810	1 660	1985
1986	2 220	2 160	2 120	2 310	3 360	3 060	1 690	1 440	1 480	1 930	2 150	2 170	2 180	1986
1987	2 070	1 970	1 770	1 450	944	713	614	647	1 020	1 540	1 950	1 670	1 310	1987
1988	1 610	1 410	1 110	827	676	766	460	480	513	923	1 360	1 340	930	1988
1989	1 240	1 150	1 090	887	782	643	815	1 170	1 580	1 870	1 860	1 850	1 250	1989
1990	1 630	1 470	1 230	1 080	899	802	831	1 000	1 530	2 070	1 970	1 900	1 370	1990
MEAN	1 770	1 660	1 550	1 430	1 480	1 460	1 450	1 320	1 480	1 840	1 980	1 910	1 530	MEAN

LOCATION - LAT 54 29 53 N
LONG 098 02 53 W

REGULATED SINCE 1975

DATA CONTRIBUTED BY - MANITOBA HYDRO

NELSON RIVER (WEST CHANNEL) AT JENPEG - STATION NO. 05UB009

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	3 060 AT 15:29 CST ON JUL 10	3 000 ON JUL 10	---	---	1967
1968	2 640 AT 13:50 CST ON SEP 15	2 590 ON SEP 15	---	---	1968
1969	3 000 AT 04:14 CST ON MAY 26	2 970 ON MAY 26	---	---	1969
1972	3 140 AT 12:41 CST ON MAY 30 *	3 090 ON MAY 22	1 600B ON DEC 31	70 400 000	1972
1973	---	---	---	---	1973
1976	---	3 260 ON MAY 28	878 ON JUL 19	61 800 000	1976
1977	---	2 190 ON NOV 16	578 ON MAY 19	35 000 000	1977
1978	---	2 470 ON DEC 02	527 ON JUL 02	43 000 000	1978
1979	---	3 650 ON JUL 09	450 ON AUG 20	69 000 000	1979
1980	---	2 260 ON DEC 05	254 ON MAY 16 *	40 200 000	1980
1981	---	2 280 ON OCT 23	379 ON JUN 07	38 200 000	1981
1982	---	2 320 ON NOV 10	733 ON MAY 27	47 000 000	1982
1983	---	2 210 ON NOV 19	872 ON JUN 11	49 800 000	1983
1984	---	2 080 ON NOV 13	890 ON MAY 26	45 500 000	1984
1985	---	2 970 ON DEC 30	977 ON MAY 29	52 300 000	1985
1986	---	3 690 ON MAY 15 *	1 280 ON JUL 22	68 600 000	1986
1987	---	2 110 ON JAN 07	496 ON JUN 21	41 400 000	1987
1988	---	1 640 ON JAN 29	402 ON JUN 18	29 400 000	1988
1989	---	2 030 ON OCT 28	567 ON MAY 30	39 300 000	1989
1990	---	2 180 ON NOV 01	717 ON JUN 25	43 100 000	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		48 400 000	MEAN

NELSON RIVER ABOVE BLADDER RAPIDS - STATION NO. 05UD004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	---	---	---	---	---	---	2 090	2 030	1 810	---	1958
1959	1 350	1 280	1 040	1 110	2 090	2 750	2 970	2 940	2 930	2 710	2 420	1 870	2 130	1959
1960	1 750	1 860	1 980	2 020	2 650	3 180	3 040	2 840	2 690	2 450	2 130	1 650	2 350	1960
1961	1 390	1 380	1 360	1 520	1 920	2 150	2 080	1 970	1 810	1 650	1 380	852	1 620	1961
1962	853	826	769	815	1 760	2 040	2 230	2 260	2 370	2 450	2 200	1 550	1 680	1962
1963	996	948	1 240	1 580	2 070	2 470	2 650	2 510	2 440	2 320	2 050	1 680	1 920	1963
1964	1 420	1 330	1 210	1 210	1 930	2 200	2 280	2 240	2 210	2 100	1 970	1 600	1 810	1964
1965	1 350	1 320	1 350	1 580	2 490	3 280	3 400	3 410	3 260	3 220	2 590	2 550	2 490	1965
1966	2 260	2 090	2 140	2 580	3 300	4 270	4 540	4 230	3 890	3 520	2 720	2 350	3 160	1966
1967	2 330	2 240	2 210	2 290	3 090	3 750	3 640	3 320	3 060	2 600	2 300	2 010	2 740	1967
1968	1 960	1 850	1 760	1 770	2 240	2 610	2 690	2 610	2 740	2 700	2 540	1 990	2 290	1968
1969	2 090	2 150	2 340	2 700	3 310	3 310	3 270	3 230	3 350	3 290	3 130	2 680	2 910	1969
1970	2 530	2 460	2 740	2 790	3 250	3 640	3 820	3 600	3 240	2 940	3 000	2 580	3 050	1970
1971	2 200	2 390	2 450	2 760	3 440	3 590	3 410	3 120	2 920	2 710	2 280	2 010	2 780	1971
1972	1 940	2 050	2 360	2 570	3 380	3 610	3 410	3 090	2 790	2 540	2 210	1 870	2 650	1972
1973	2 010	2 030	2 100	2 170	2 400	2 030	1 920	1 830	1 630	1 800	1 970	1 850	1 980	1973
1974	1 830	1 750	1 820	2 410	3 330	4 160	4 480	4 270	3 860	3 690	3 330	2 580	3 130	1974
1975	2 180	2 160	2 510	2 780	3 380	3 720	3 190	3 330	3 050	3 750	3 650	3 080	3 070	1975
1976	2 310	2 820	2 450	2 520	3 150	3 220	2 810	2 060	1 750	2 270	2 130R	1 700R	2 520R	1976
1977	1 560	1 490	1 440	1 050	922	1 060	1 060	1 020	1 050	1 300	2 350	1 940	1 350	1977
1978	1 740	1 630	1 590	1 620	1 680	1 180	1 180	1 300	1 590	2 640	2 970	2 750	1 820	1978
1979	2 360	2 220	2 200	2 300	3 490	4 570	4 420	2 320	1 550	2 290	3 020	2 330	2 760	1979
1980	2 130	2 060	1 970	1 960	1 160	1 200	1 000	1 150	1 250	2 060	2 440	2 350	1 730	1980
1981	2 220	1 990	1 550	1 110	1 040	915	1 210	1 170	1 420	2 240	2 740	2 210	1 650	1981
1982	1 960	1 790	1 650	1 610	1 770	1 410	1 490	1 740	2 370	2 830	2 990	2 730	2 030	1982
1983	2 680	2 590	2 560	2 520	2 160	1 750	1 860	1 900	1 880	2 260	2 830	2 510	2 290	1983
1984	2 360	2 120	1 990	2 020	1 640	1 600	1 750	1 780	1 840	2 090	2 270	2 290	1 980	1984
1985	2 230	2 110	1 980	2 110	1 740	1 840	2 000	1 890	2 160	2 650	2 910	3 400	2 250	1985
1986	3 270	2 930	2 800	3 090	4 320	4 320	2 920	2 410	2 140	2 430	2 790	2 680	3 010	1986
1987	2 520	2 430	2 210	2 100	1 690	1 250	1 270	1 260	1 510	1 920	2 060	1 950	1 840	1987
1988	1 830	1 640	1 470	1 150	1 230	905	785	756	755	1 030	1 540	1 570	1 220	1988
1989	1 430	1 310	1 250	1 140	1 160	985	1 190	1 570	1 950	2 250	2 120	2 120	1 540	1989
1990	1 810	1 650	1 400	1 310	1 450	1 290	1 360	1 520	1 920	2 470	2 440	2 230	1 740	1990
MEAN	1 990	1 900	1 870	1 950	2 330	2 510	2 480	2 330	2 290	2 460	2 470R	2 160R	2 230R	MEAN

LOCATION - LAT 54 46 30 N LONG 097 55 50 W DRAINAGE AREA 997 000 km² REGULATED SINCE 1973

R - REVISED SINCE JAN 01 1989

REMARKS - FOR THE PERIOD 1914-51 LAKE WINNIPEG ELEVATION WERE USED TO COMPUTE MONTHLY MEAN DISCHARGES FOR THIS STATION

NELSON RIVER ABOVE BLADDER RAPIDS - STATION NO. 05UD004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	---	---	---	1958
1959	---	3 060 ON SEP 09	966B ON MAR 31	67 100 000	1959
1960	---	3 260 ON JUN 15	1 490B ON DEC 31	74 400 000	1960
1961	---	2 220 ON JUN 07	697B ON DEC 20 *	51 100 000	1961
1962	---	2 550 ON OCT 11	728B ON APR 15	53 000 000	1962
1963	---	2 720 ON JUN 30	917B ON FEB 03	60 500 000	1963
1964	---	2 360 ON AUG 05	1 190B ON MAR 21	57 200 000	1964
1965	---	3 510A ON JUN 28	1 310B ON JAN 11	78 600 000	1965
1966	---	4 620 ON JUL 12	2 050B ON FEB 05	99 800 000	1966
1967	3 850 AT 08:40 CST ON JUN 06	3 820 ON JUN 06	1 980B ON DEC 21	86 400 000	1967
1968	---	2 860 ON SEP 21	1 700 ON APR 08	72 400 000	1968
1969	3 570 AT 10:42 CST ON SEP 05	3 540 ON SEP 05	1 930B ON JAN 01	91 700 000	1969
1970	3 940 AT 21:33 CST ON JUL 15	3 910 ON JUL 11	2 350B ON DEC 31	96 200 000	1970
1971	3 650 AT 02:00 CST ON MAY 29	3 650 ON MAY 29	1 990B ON DEC 21	87 600 000	1971
1972	3 880 AT 02:11 CST ON JUN 14	3 820 ON JUN 14	1 760B ON DEC 11	83 900 000	1972
1973	2 540 AT 05:34 CST ON MAY 28	2 530 ON MAY 25	1 500 ON SEP 16	62 400 000	1973
1974	4 590 AT 04:00 CST ON JUL 15	4 560 ON JUL 14	1 670B ON FEB 27	98 800 000	1974
1975	---	3 940E ON AUG 26	2 020B ON JAN 30	96 800 000	1975
1976	---	3 620B ON JAN 01	1 610RB ON DEC 30	79 600 000	1976
1977	2 530 AT 08:07 CST ON NOV 20	2 530 ON NOV 20	878E ON MAY 10	42 600 000	1977
1978	3 170 AT 07:00 CST ON NOV 05	3 140 ON NOV 05	1 120 ON JUN 09	57 500 000	1978
1979	4 790 AT 14:45 CST ON JUN 20	4 750 ON JUN 20	1 250 ON AUG 31	87 000 000	1979
1980	2 590 AT 18:27 CST ON NOV 03	2 590 ON NOV 03	864 ON JUL 12	54 600 000	1980
1981	2 880 AT 21:15 CST ON NOV 07	2 860 ON NOV 08	791 ON JUN 17	52 000 000	1981
1982	3 110 AT 19:18 CST ON NOV 11	3 070 ON NOV 12	1 380 ON JUN 03	64 000 000	1982
1983	3 000 AT 21:40 CST ON NOV 07	2 930 ON NOV 07	1 580 ON JUL 06	72 200 000	1983
1984	---	2 430B ON JAN 01	1 490 ON JUN 11	62 600 000	1984
1985	---	3 480B ON DEC 29	1 580 ON MAY 28	71 000 000	1985
1986	4 870 AT 10:36 CST ON MAY 30 *	4 830 ON MAY 30 *	2 050 ON SEP 14	94 900 000	1986
1987	---	2 580B ON JAN 01	1 180 ON JUN 16	58 200 000	1987
1988	---	1 860B ON JAN 27	721 ON SEP 01	38 600 000	1988
1989	2 400 AT 16:00 CST ON OCT 27	2 350 ON OCT 27	925 ON JUN 15	48 600 000	1989
1990	2 600 AT 16:18 CST ON NOV 07	2 600 ON NOV 07	1 250 ON JUN 16	54 800 000	1990
				70 500 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1989

NELSON RIVER AT KELSEY GENERATING STATION - STATION NO. 05UE005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	---	3 280	3 080	2 900	2 640	1 920	1 450	---	1960
1961	1 520	1 440	1 390	1 370	1 910	1 940	2 070	1 990	1 850	1 630	1 340	1 020	1 620	1961
1962	975	886	810	1 780	2 660	2 000	2 110	2 140	2 150	2 370	2 170	1 790	2 660	1962
1963	1 550	1 440	1 440	1 450	2 410	2 570	2 870	2 680	2 530	2 430	2 160	1 630	2 100	1963
1964	1 420	1 380	1 240	1 240	2 040	2 350	2 330	2 400	2 440	2 330	2 130	1 710	1 920	1964
1965	1 480	1 450	1 430	1 420	2 730	3 300	3 610	3 540	3 520	3 310	2 780	2 670	2 610	1965
1966	2 340	2 230	2 290	2 400	3 290	4 400	4 800	4 530	4 060	3 670	2 860	2 430	3 280	1966
1967	2 380	2 290	2 260	2 300	2 910	3 920	3 790	3 450	3 410	2 770	2 350	1 940	2 790	1967
1968	1 720	1 700	1 690	1 740	2 460	2 720	2 780	2 670	2 790	2 770	2 660	2 510	2 350	1968
1969	2 300	2 170	2 420	2 660	3 280	3 320	3 230	3 380	3 640	3 670	3 060	2 890	3 010	1969
1970	2 550	2 520	2 510	2 600	3 320	3 810	4 110	3 900	3 570	3 110	2 970	2 340	3 110	1970
1971	2 370	2 280	2 480	2 640	3 560	3 820	3 790	3 360	3 140	2 900	2 400	2 200	2 920	1971
1972	2 070	2 040	2 130	2 360	3 550	3 930	3 750	3 260	2 920	2 620	2 140	1 730	2 710	1972
1973	1 780	1 770	1 790	1 990	2 430	2 170	1 860	1 800	1 600	1 700	1 980	1 940	1 900	1973
1974	1 890	1 920	2 030	2 140	2 760	3 410	3 880	3 870	3 590	3 440	3 060	2 370	2 870	1974
1975	2 320	2 270	2 380	2 340	2 920	3 210	3 050	2 860	2 760	3 110	3 180	2 410	2 740	1975
1976	2 470	2 170	2 030	2 170	2 820	3 000	2 880	2 040	1 740	1 940	2 020	1 840	2 260	1976
1977	1 710	1 640	1 660	1 550	857	1 100	1 150	999	1 210	1 270	1 850	1 900	1 410	1977
1978	1 790	1 830	1 960	1 690	1 430	1 430	1 170	1 250	1 440	2 180	2 500	2 560	1 750	1978
1979	2 490	2 540	2 420	2 080	2 910	3 900	4 030	2 890	1 530	1 830	2 450	2 290	2 610	1979
1980	2 100	2 070	2 160	1 980	1 340	1 180	979	1 090	1 320	1 740	2 140	2 150	1 680	1980
1981	2 140	2 170	1 820	915	940	966	1 320	952	1 320	1 770	2 330	2 170	1 560	1981
1982	1 840	1 800	1 690	1 610	1 890	1 460	1 500	1 490	1 860	2 330	2 440	2 300	1 850	1982
1983	2 190	2 240	2 300	2 340	1 930	1 780	1 650	1 710	1 750	1 990	2 320	2 220	2 030	1983
1984	2 180	2 080	2 180	1 860	1 560	1 610	1 570	1 550	1 690	1 880	1 990	2 080	1 850	1984
1985	2 030	2 050	1 780	1 850	1 880	1 730	1 860	1 690	1 940	2 250	2 390	2 470	1 990	1985
1986	2 650	2 700	2 600	2 360	3 490	3 900	3 040	2 020	1 930	2 480	2 440	2 450	2 610	1986
1987	2 320	2 180	2 090	2 000	1 710	1 230	1 190	1 130	1 380	1 510	1 740	1 750	1 680	1987
1988	1 630	1 600	1 430	1 110	1 360	1 010	771	727	730	890	1 130	1 370	1 160	1988
1989	1 340	1 270	1 210	1 100	1 210	929	1 120	1 380	1 520	1 840	1 790	1 810	1 380	1989
1990	1 770	1 610	1 450	1 290	1 450	1 270	1 190	1 340	1 580	1 940	2 000	1 940	1 570	1990
MEAN	1 980	1 920	1 900	1 840	2 270	2 440	2 480	2 300	2 240	2 320	2 280	2 080	2 170	MEAN

LOCATION - LAT 56 02 20 N LONG 096 31 30 W DRAINAGE AREA 1 010 000 km² REGULATED SINCE 1960 DATA CONTRIBUTED BY - MANITOBA HYDRO

NELSON RIVER AT KELSEY GENERATING STATION - STATION NO. 05UE005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	---	---	---	1960
1961	---	2 560 ON AUG 02	881 ON DEC 20	51 200 000	1961
1962	---	2 510 ON OCT 18	742 ON APR 14	25 200 000	1962
1963	---	3 000 ON JUL 11	1 310 ON APR 14	64 300 000	1963
1964	---	2 690 ON SEP 13	1 150 ON APR 06	60 700 000	1964
1965	---	3 770 ON SEP 14	1 270 ON APR 11	82 400 000	1965
1966	---	4 980 ON JUL 22 *	2 160 ON FEB 03	103 000 000	1966
1967	---	4 020 ON JUN 08	1 610 ON DEC 31	88 000 000	1967
1968	---	3 340 ON DEC 25	1 570 ON MAR 05	74 400 000	1968
1969	---	3 820 ON SEP 09	2 040 ON JAN 14	94 900 000	1969
1970	---	4 190 ON JUL 06	2 260 ON DEC 16	90 100 000	1970
1971	---	3 990 ON JUL 09	1 950 ON NOV 22	92 000 000	1971
1972	---	4 160 ON JUN 16	1 600 ON DEC 13	85 700 000	1972
1973	---	2 660 ON JUN 04	1 440 ON SEP 13	60 000 000	1973
1974	---	3 960 ON JUL 29	1 830 ON FEB 05	90 500 000	1974
1975	---	3 430 ON JUL 01	2 200 ON FEB 06	86 300 000	1975
1976	---	3 170 ON JUN 08	1 600 ON SEP 18	71 500 000	1976
1977	---	2 120 ON NOV 18	419 ON MAY 08 *	44 300 000	1977
1978	---	2 750 ON NOV 07	971 ON JUL 10	55 300 000	1978
1979	---	4 080 ON JUL 07	1 380 ON SEP 06	82 500 000	1979
1980	---	2 260 ON MAR 10	684 ON JUL 21	53 300 000	1980
1981	---	2 470 ON NOV 29	497 ON AUG 03	49 300 000	1981
1982	---	2 690 ON NOV 10	1 090 ON JUL 01	58 400 000	1982
1983	---	2 480 ON NOV 18	1 520 ON MAY 04	64 100 000	1983
1984	---	2 270 ON JAN 01	1 370 ON MAY 08	58 600 000	1984
1985	---	2 610 ON DEC 31	1 590 ON JUN 14	62 800 000	1985
1986	---	4 050 ON JUN 12	1 860 ON SEP 18	82 400 000	1986
1987	---	2 440 ON JAN 01	977 ON JUN 21	53 100 000	1987
1988	---	1 720 ON JAN 01	797 ON SEP 03	36 700 000	1988
1989	---	2 010 ON OCT 30	799 ON JUN 17	43 500 000	1989
1990	---	2 130 ON NOV 04	1 060 ON JUL 17	49 500 000	1990
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		68 400 000	MEAN

NELSON RIVER AT KETTLE GENERATING STATION - STATION NO. 05UF006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1987	3 660	3 450	3 400	3 120	3 100	2 420	2 590	2 100	2 400	2 440	2 690	2 920	2 850	1987
1988	2 710	2 780	2 720	1 970	2 850	2 200	1 780	1 600	1 850	1 820	2 110	2 300	2 220	1988
1989	2 230	2 240	2 180	1 970	2 450	1 990	1 980	2 430	2 670	2 590	2 810	2 770	2 360	1989
1990	2 920	2 820	2 530	2 240	2 510	2 720	2 220	2 300	2 370	2 700	2 850	2 860	2 590	1990
MEAN	2 880	2 820	2 710	2 330	2 730	2 330	2 140	2 110	2 320	2 390	2 620	2 710	2 510	MEAN

LOCATION - LAT 56 22 49 N
LONG 094 38 02 W

REGULATED SINCE 1970

DATA CONTRIBUTED BY - MANITOBA HYDRO

REMARKS - FLOW CALCULATED FROM GENERATION AND SPILL TABLES

NELSON RIVER AT KETTLE GENERATING STATION - STATION NO. 05UF006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1987	---	4 190 ON JAN 24 *	893 ON MAY 24	90 000 000	1987
1988	---	3 820 ON MAY 15	701 ON OCT 09	70 300 000	1988
1989	---	3 840 ON DEC 14	691 ON MAR 26 *	74 500 000	1989
1990	---	3 590 ON JAN 12	768 ON AUG 05	81 600 000	1990
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		79 100 000	MEAN

NELSON RIVER AT LONG SPRUCE GENERATING STATION - STATION NO. 05UF007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1987	3 700	3 510	3 450	3 170	3 190	2 460	2 600	2 110	2 420	2 460	2 690	2 840	2 880	1987
1988	2 730	2 800	2 740	1 980	2 920	2 280	1 810	1 610	1 870	1 820	2 110	2 290	2 250	1988
1989	2 240	2 260	2 210	1 990	2 520	2 020	2 000	2 460	2 710	2 630	2 840	2 810	2 390	1989
1990	2 940	2 830	2 540	2 260	2 540	2 760	2 230	2 300	2 390	2 710	2 880	2 890	2 600	1990
MEAN	2 900	2 850	2 740	2 350	2 790	2 380	2 160	2 120	2 350	2 410	2 630	2 710	2 530	MEAN

LOCATION - LAT 56 23 51 N
LONG 094 22 10 W

REGULATED SINCE 1977

DATA CONTRIBUTED BY - MANITOBA HYDRO

REMARKS - FLOW CALCULATED FROM GENERATION AND SPILL TABLES

NELSON RIVER AT LONG SPRUCE GENERATING STATION - STATION NO. 05UF007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1987	---	4 260 ON JAN 23 *	304 ON DEC 24 *	90 800 000	1987
1988	---	3 970 ON MAY 15	716 ON OCT 08	71 000 000	1988
1989	---	3 900 ON DEC 14	692 ON MAY 07	75 400 000	1989
1990	---	3 610 ON DEC 27	736 ON AUG 05	82 100 000	1990
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		79 800 000	MEAN

NELSON RIVER AT NORWAY HOUSE - STATION NO. 05UB001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	---	---	---	---	---	---	---	---	---	---	---	1980
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	---	MEAN

LOCATION - LAT 54 00 00 N
LONG 097 48 00 W

REGULATED SINCE 1973

NELSON RIVER AT NORWAY HOUSE - STATION NO. 05UB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	598 AT 09:40 CST ON AUG 29 *	---	---	---	1980
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

NELSON RIVER BELOW SIPIWESK LAKE - STATION NO. 05UE004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1951	---	---	---	---	---	---	---	---	---	---	---	---	---	1951
1952	1 770	1 700	1 650	1 710	4 610	2 860	2 980	2 910	2 860	2 720	2 520	2 150	2 370	1952
1953	1 910	1 760	1 670	1 650	4 090	2 500	2 940	3 100	3 100	3 120	2 980	2 430	2 440	1953
1954	2 120	1 840	1 610	1 590	2 180	2 870	3 270	3 540	3 570	3 530	3 370	3 110	2 720	1954
1955	2 830	2 460	2 240	2 180	3 090	3 510	3 800	3 780	3 580	3 360	2 860	2 550	3 020	1955
1956	2 420	2 170	2 080	2 020	2 830	3 400	3 450	3 410	3 250	2 940	2 740	2 210	2 750	1956
1957	1 900	1 760	1 700	1 660	2 210	2 730	2 950	2 950	2 820	2 700	2 270	1 840	2 300	1957
1958	1 640	1 530	1 500	1 590	2 030	2 310	2 250	2 280	2 260	---	---	---	---	1958
MEAN	2 080	1 890	1 780	1 770	2 430	2 880	3 090	3 160	3 080	3 070	2 760	2 330	2 600	MEAN

LOCATION - LAT 55 13 24 N LONG 097 13 06 W DRAINAGE AREA, 1 010 000 km² NATURAL FLOW

NELSON RIVER BELOW SIPIWESK LAKE - STATION NO. 05UE004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1951	---	---	---	---	1951
1952	---	---	---	---	1952
1953	---	3 030 ON JUL 23	1 650E ON MAR 01	75 000 000	1953
1954	---	3 140 ON SEP 30	1 650E ON APR 01	77 000 000	1954
1955	3 350 AT 09:00 CST ON JUL 21 *	3 600 ON SEP 03	1 590E ON APR 01 *	85 900 000	1955
1956	3 480 AT 02:00 CST ON JUL 23	3 850 ON JUL 16 *	2 180E ON APR 01	95 400 000	1956
1957	3 030 AT 20:00 CST ON AUG 07	3 480 ON JUL 23	2 020E ON APR 01	86 800 000	1957
1958	---	3 000 ON JUL 29	1 660E ON APR 01	72 400 000	1958
		---	---	---	
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		82 100 000	MEAN

NETLEY CREEK NEAR MATLOCK - STATION NO. 05OJ009

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	1.43	0.409	0.086	0.010	0.051	0.024	0.004	---	---	0.478	1960
1961	---	---	0.069	0.361	0.024	0	0	0	0	0	---	---	0.113	1961
1962	---	---	0	0.353	0.104	0.159	0	0.831	0.186	0.069	---	---	0.152	1962
1963	---	---	0.515	4.42	1.87	2.94	0.601	0.078	0	0	---	---	2.42	1963
1964	---	---	0	0.186	0.064	0.087	0.040	0.050	0	0	---	---	0.083	1964
1965	---	---	0	1.01	0.493	0.418	0.116	0.007	0.003	0.003	---	---	0.476	1965
1966	---	---	0.100	0.741	0.898	0.094	0.082	0.003	0	0	---	---	0.459	1966
1967	---	---	0	1.48	0.457	0.016	0	0	0	0	---	---	0.483	1967
1968	---	---	0.083	0.076	0.033	0.011	0.009	0.302	0.048	0.027	---	---	0.051	1968
1969	---	---	0	2.17	0.837	0.235	0.083	0.028	0.006	0.006	---	---	0.805	1969
1970	---	---	0	0.943	1.04	0.297	0.104	0.015	0	0.001	---	---	0.570	1970
1971	---	---	0	0.867	0.124	0.010	0.006	0.001	0	0	---	---	0.247	1971
1972	---	---	0	0.865	0.043	0.002	0	0	0	0	---	---	0.224	1972
1973	---	---	0.032	0.002	0.003	0.429	---	---	---	---	---	---	0.115	1973
1974	---	---	0	7.44	7.26	1.46	---	---	---	---	---	---	4.03	1974
1975	---	---	0	0.349	0.105	0.012	---	---	---	---	---	---	0.115	1975
1976	---	---	0	3.55	0.994	0.082	---	---	---	---	---	---	1.15	1976
1977	---	---	0	0.002	0	0.004	---	---	---	---	---	---	0.002	1977
1978	---	---	0	3.48	0.775	0.187	---	---	---	---	---	---	1.10	1978
1979	---	---	0	2.65	3.92	1.78	---	---	---	---	---	---	2.09	1979
1980	---	---	0	0.177	0	0	---	---	---	---	---	---	0.044	1980
1981	---	---	0.011	0.008	0.002	0.003	---	---	---	---	---	---	0.006	1981
1982	---	---	0.271	2.03	0.062	0.009	---	---	---	---	---	---	0.585	1982
1983	---	---	0.027	2.07	0.105	0.134	---	---	---	---	---	---	0.575	1983
1984	---	---	0.029	0.142	0.025	0.055	---	---	---	---	---	---	0.062	1984
1985	---	---	0.084	0.468	0.068	0.025	---	---	---	---	---	---	0.160	1985
1986	---	---	0.213	1.37	2.30	0.304	---	---	---	---	---	---	1.05	1986
1987	---	---	0	0.989	0.064	0.002	---	---	---	---	---	---	0.260	1987
1988	---	---	0	0.309	0	0.006	---	---	---	---	---	---	0.077	1988
1989	---	---	0	0.069	0.022	0.733	---	---	---	---	---	---	0.203	1989
1990	---	---	0.064	0.144	0.014	0.094	---	---	---	---	---	---	0.078	1990
MEAN	---	---	0.048	1.30	0.713	0.312	0.081	0.105	0.021	0.008	---	---	0.589	MEAN

LOCATION - LAT 50 26 52 N LONG 097 09 56 W DRAINAGE AREA, 287 km² NATURAL FLOW

REMARKS - HIGHER MAX DISCHARGES OCCURRED OUTSIDE THE STD PER IN 1964 AND 68. EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

METLEY CREEK NEAR MATLOCK - STATION NO. 05QJ009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	4.81 B ON APR 17	0B ON MAR 01 *	5 040	1960
1961	---	0.580 ON APR 02	0B ON MAR 01	1 190	1961
1962	---	3.26 ON APR 20	0B ON MAR 01	1 610	1962
1963	---	8.27 ON APR 08	0B ON MAR 01	25 500	1963
1964	---	0.617 ON APR 18	0B ON MAR 01	878	1964
1965	---	5.15 B ON APR 14	0B ON MAR 01	5 020	1965
1966	---	3.99 ON MAY 05	0B ON MAR 01	4 840	1966
1967	---	4.02 B ON APR 14	0B ON MAR 01	5 090	1967
1968	---	1.11 B ON MAR 30	0B ON MAR 01	536	1968
1969	---	8.01 B ON APR 13	0B ON MAR 01	8 490	1969
1970	---	4.64 B ON APR 19	0B ON MAR 01	6 000	1970
1971	---	4.47 ON APR 19	0B ON MAR 01	2 610	1971
1972	---	4.42 ON APR 16	0B ON MAR 01	2 360	1972
1973	---	1.68 ON JUN 19	0B ON MAR 01	1 210	1973
1974	---	26.7 ON APR 22 *	0B ON MAR 01	42 500	1974
1975	---	1.13 B ON APR 23	0B ON MAR 01	1 220	1975
1976	---	7.05 ON APR 13	0B ON MAR 01	12 100	1976
1977	---	0.028 ON JUN 19	0B ON MAR 01	16.4	1977
1978	---	6.71 ON APR 13	0B ON MAR 01	11 600	1978
1979	---	9.64 ON APR 22	0B ON MAR 01	22 000	1979
1980	---	0.672B ON APR 14	0B ON MAR 01	459	1980
1981	0.779 AT 09:31 CST ON MAY 08	0.083E ON MAR 29	0B ON MAR 01	63.6	1981
1982	---	7.01 B ON APR 13	0B ON MAR 01	6 170	1982
1983	6.74 AT 13:12 CST ON APR 06	5.10 ON APR 06	0B ON MAR 01	6 060	1983
1984	---	0.340B ON MAR 30	0B ON MAR 01	653	1984
1985	1.85 B AT 13:44 CST ON APR 02	1.31 B ON APR 02	0B ON MAR 01	1 680	1985
1986	4.79 B AT 09:59 CST ON APR 01	4.04 ON MAY 06	0B ON MAR 01	11 100	1986
1987	5.07 B AT 19:00 CST ON APR 06	3.65 B ON APR 06	0B ON MAR 01	2 740	1987
1988	---	1.81 B ON APR 03	0B ON MAR 01	816	1988
1989	7.54 AT 06:01 CST ON JUN 13 *	6.46 ON JUN 13	0B ON MAR 01	2 140	1989
1990	1.26 B AT 22:04 CST ON MAR 30	1.01 B ON MAR 31	0B ON MAR 01	825	1990
				6 210	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

METLEY CREEK NEAR PETERSFIELD - STATION NO. 05QJ008

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.024	8.31	1.14	0.295	0.107	0.120	0.089	0.003	---	---	1.24	1960
1961	---	---	0.632	1.73	0.309	0.028	0.001	0	0	0.002	---	---	0.334	1961
1962	---	---	0	3.11	0.353	0.262	0.082	2.14	0.441	0.301	---	---	0.830	1962
1963	---	---	2.22	10.6	2.41	5.89	0.907	0.230	0.047	0.076	---	---	2.76	1963
1964	---	---	0.008	1.94	0.324	0.173	0.124	0.170	0.130	0.092	---	---	0.366	1964
1965	---	---	0	6.69	0.963	0.769	0.236	0.088	0.104	0.119	---	---	1.10	1965
1966	---	---	0.006	4.43	2.64	0.297	0.245	0.067	0.047	0.095	---	---	0.972	1966
1967	---	---	0	6.70	0.994	0.118	0.058	0.023	0.021	0.018	---	---	0.976	1967
1968	---	---	0.540	1.25	0.159	0.172	0.229	0.937	0.332	0.240	---	---	0.484	1968
1969	---	---	0.040	7.36	1.94	0.619	0.314	0.200	0.085	0.103	---	---	1.32	1969
1970	---	---	0.010	6.87	1.91	0.572	0.299	0.070	0.090	0.080	---	---	1.22	1970
1971	---	---	0.013	7.08	0.256	0.229	0.440	0.046	0.063	0.216	---	---	1.03	1971
1972	---	---	0.016	5.61	0.206	0.057	0.061	0.037	0.042	0.042	---	---	0.745	1972
1973	---	---	0.651	0.078	0.023	0.471	0.122	0.096	0.206	0.335	---	---	0.248	1973
1974	---	---	0.014	22.5	13.8	2.34	0.793	0.164	0.105	0.090	---	---	4.93	1974
1975	---	---	0.003	2.36	0.238	0.060	0.028	0.031	0.025	0.050	---	---	0.344	1975
1976	---	---	0	9.26	1.22	0.168	0.039	0.012	0.030	0.033	---	---	1.32	1976
1977	---	---	0.011	0.272	0.028	0.157	0.053	0.039	0.471	0.179	---	---	0.149	1977
1978	---	---	0	11.5	1.13	0.347	0.580	0.015	0.005	0.054	---	---	1.68	1978
1979	---	---	0	13.7	7.06	2.70	0.384	0.076	0.077	0.062	---	---	2.97	1979
1980	---	---	0	1.36	0.221	0.060	0.012	0.053	0.051	0.150	---	---	0.236	1980
1981	---	---	0.144	0.117	0.027	0.013	0.063	0.012	0.035	0.397	---	---	0.104	1981
1982	---	---	1.24	3.94	0.345	0.154	0.070	0.136	0.064	0.232	---	---	0.764	1982
1983	---	---	0.424	6.61	0.192	1.53	0.361	0.110	0.047	0.074	---	---	1.15	1983
1984	---	---	0.484	0.810	0.149	0.175	0.136	0.100	0.086	0.148	---	---	0.260	1984
1985	---	---	1.56	0.879	0.215	0.098	0.056	0.173	0.098	0.098	---	---	0.397	1985
1986	---	---	2.32	6.79	4.81	0.538	0.131	0.003	0.080	0.066	---	---	1.84	1986
1987	---	---	0	4.02	0.164	0.072	0.046	0.193	0.087	0.098	---	---	0.576	1987
1988	---	---	0	1.53	0.044	0.070	0.046	0.026	0.078	0.063	---	---	0.228	1988
1989	---	---	0.039	1.37	0.054	2.01	0.121	0.054	0.047	0.017	---	---	0.456	1989
1990	---	---	0.461	1.37	0.139	1.32	0.748	0.062	0.063	0.068	---	---	0.524	1990
MEAN	---	---	0.350	5.17	1.40	0.702	0.222	0.179	0.103	0.116	---	---	1.02	MEAN

LOCATION - LAT 50 19 38 N
LONG 097 02 39 W
DRAINAGE AREA, 645 km^2
NATURAL FLOW

METLEY CREEK NEAR PETERSFIELD - STATION NO. 05QJ008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	41.3 ON APR 15	0 B ON MAR 01 *	26 300	1960
1961	---	5.30 ON APR 21	0 B ON MAR 01	7 080	1961
1962	---	25.0 B ON APR 21	0 B ON MAR 01	17 600	1962
1963	---	37.4 ON APR 09	0 ON SEP 08	58 500	1963
1964	---	9.63 B ON APR 15	0.008B ON MAR 01	7 750	1964
1965	---	31.4 ON APR 15	0 B ON MAR 01	23 400	1965
1966	---	12.5 ON MAY 05	0 B ON MAR 01	20 600	1966
1967	---	24.0 ON APR 15	0 B ON MAR 01	20 700	1967
1968	---	7.59 ON AUG 25	0 B ON MAR 01	10 200	1968
1969	---	32.6 B ON APR 13	0.040B ON MAR 01	27 900	1969
1970	---	25.5 B ON APR 25	0.010B ON MAR 01	25 900	1970
1971	---	28.6 ON APR 19	0.011 ON AUG 28	21 800	1971
1972	---	23.2 ON APR 18	0.016B ON MAR 01	15 800	1972
1973	---	3.40 B ON MAR 23	0.018 ON JUN 12	5 240	1973
1974	---	71.6 ON APR 21 *	0.014B ON MAR 01	104 000	1974
1975	---	6.94 ON APR 21	0 ON JUL 15	7 280	1975
1976	---	36.5 ON APR 10	0 B ON MAR 01	28 000	1976
1977	---	2.42 ON SEP 26	0 B ON MAR 01	3 160	1977
1978	---	36.0 ON APR 16	0 B ON MAR 01	35 500	1978
1979	---	62.4 ON APR 23	0 B ON MAR 01	62 900	1979
1980	---	4.91 B ON APR 10	0 B ON MAR 01	4 990	1980
1981	0.845 AT 03:04 CST ON OCT 14	0.795 ON OCT 14	0 B ON MAR 01	2 200	1981
1982	12.0 AT 03:12 CST ON APR 15	11.7 B ON MAR 30	0 B ON MAR 01	16 200	1982
1983	---	21.7 ON APR 06	0 B ON MAR 01	24 300	1983
1984	---	3.83 B ON MAR 31	0 B ON MAR 01	5 500	1984
1985	---	6.74 B ON MAR 25	0 B ON MAR 01	8 400	1985
1986	37.5 B AT 00:49 CST ON MAR 31 *	32.6 B ON MAR 31	0 B ON MAR 01	39 000	1986
1987	32.0 B AT 11:02 CST ON APR 08	26.7 B ON APR 08	0 B ON MAR 01	12 200	1987
1988	---	14.0 B ON APR 03	0 B ON MAR 01	4 820	1988
1989	21.8 AT 13:55 CST ON JUN 13	18.5 ON JUN 13	0.001 ON OCT 24	9 660	1989
1990	10.6 B AT 22:12 CST ON MAR 31	9.43 B ON MAR 31	0.018 ON AUG 10	11 100	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		21 500	MEAN

NORTH DUCK RIVER AT COWAN - STATION NO. 05LG004

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	0.126	1.23	1.99	1.23	2.02	2.66	0.548	0.377	---	---	1.28	1968
1969	---	---	0.147	2.62	2.42	1.54	1.18	0.555	0.916	2.99	---	---	1.54	1969
1970	---	---	0.184	2.58	9.06	1.90	3.85	0.550	0.830	3.90	---	---	2.87	1970
1971	---	---	0.178	5.41	1.91	3.52	2.79	0.639	0.423	1.06	---	---	1.98	1971
1972	---	---	0.175	4.20	5.22	0.878	2.662	0.253	0.175	0.318	---	---	1.48	1972
1973	---	---	0.093	1.00	2.71	8.28	2.77	0.433	2.21	1.23	---	---	2.32	1973
1974	---	---	0.230	5.72	9.52	2.29	0.339	0.529	1.01	0.808	---	---	2.55	1974
1975	---	---	0.207	2.89	6.83	3.31	0.277	0.261	4.24	1.84	---	---	2.47	1975
1976	---	---	0.235	6.84	2.58	9.08	0.579	0.224	0.131	0.166	---	---	2.44	1976
1977	---	---	0.181	1.41	0.917	0.197	0.649	1.19	4.44	1.62	---	---	1.12	1977
1978	---	---	0.196	2.92	2.13	0.703	0.139	0.052	0.233	0.468	---	---	0.850	1978
1979	---	---	0.128	1.29	12.1	3.28	0.261	0.081	0.061	0.368	---	---	2.21	1979
1980	---	---	0.008	2.08	0.401	0.109	0.061	0.575	0.199	0.274	---	---	0.459	1980
1981	---	---	0.056	0.864	0.975	2.51	0.540	0.172	0.141	0.569	---	---	0.723	1981
1982	---	---	0.020	1.87	1.58	1.05	5.08	0.417	0.218	0.627	---	---	1.36	1982
1983	---	---	0.139	2.49	1.81	4.34	2.06	0.211	0.248	0.380	---	---	1.96	1983
1984	---	---	0.397	2.79	5.28	5.12	0.624	0.170	0.532	2.02	---	---	2.11	1984
1985	---	---	0.362	8.27	2.17	2.37	0.780	3.50	1.02	1.59	---	---	2.49	1985
1986	---	---	0.522	4.75	4.78	1.20	1.26	0.314	1.36	1.15	---	---	1.91	1986
1987	---	---	0.622	4.21	0.975	0.666	1.87	0.906	0.436	1.48	---	---	1.38	1987
1988	---	---	0.242	7.21	14.0	0.708	0.134	0.109	0.112	0.197	---	---	2.84	1988
1989	---	---	0.089	0.857	0.660	2.44	0.265	1.09	0.592	1.41	---	---	0.921	1989
1990	---	---	0.339	5.09	8.77	1.17	1.89	0.128	0.092	0.172	---	---	2.21	1990
MEAN	---	---	0.212	3.42	4.56	2.43	1.31	0.649	0.877	1.09	---	---	1.81	MEAN

LOCATION - LAT 52 01 50 N DRAINAGE AREA, 223 km^2
LONG 100 39 00 W NATURAL FLOW

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "DUCK RIVER AT COWAN"

NORTH DUCK RIVER AT CONAN - STATION NO. 05LG004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	17.7 CN AUG 20	0.068B CN MAR 01	27 000	1968
1969	---	14.5 CN OCT 04	0.108 CN AUG 27	32 700	1969
1970	---	23.6 E CN OCT 29	0.139 CN SEP 18	60 800	1970
1971	---	23.8 CN JUL 25	0.176B CN MAR 01	41 800	1971
1972	---	18.9 CN APR 30	0.051 CN SEP 02	31 400	1972
1973	---	69.1 CN JUN 20	0.059 CN AUG 24	49 200	1973
1974	---	33.7 CN MAY 22	0.102 CN AUG 10	54 000	1974
1975	---	25.5 CN SEP 20	0.051 CN JUL 29	52 300	1975
1976	110 CN JUN 14	83.0 CN JUN 14 *	0.119 CN SEP 26	51 700	1976
1977	17.6 AT 05:41 CST CN SEP 26	15.6 CN SEP 26	0.062 CN JUN 28	27 900	1977
1978	11.4 AT 03:28 CST CN APR 29	10.8 CN APR 28	0.007 CN AUG 10	18 000	1978
1979	41.0 AT 07:30 CST CN MAY 26	35.9 CN MAY 26	0.019 CN SEP 01	46 700	1979
1980	6.51 AT 04:05 CST CN APR 22	6.23 CN APR 21	0.005B CN MAR 01 *	9 710	1980
1981	16.1 AT 11:23 CST CN JUN 24	13.3 CN JUN 24	0 B CN MAR 01 *	15 100	1981
1982	116 AT 18:01 CST CN JUL 17 *	49.9 CN JUL 18	0 B CN MAR 01	28 800	1982
1983	27.7 B AT 12:19 CST CN APR 24	20.3 CN MAY 19	0.077 CN AUG 24	41 500	1983
1984	39.0 AT 17:52 CST CN JUN 23	29.2 CN JUN 23	0.069E CN SEP 01	44 600	1984
1985	51.2 AT 02:45 CST CN AUG 14	39.2 CN AUG 14	0.226B CN MAR 03	52 700	1985
1986	17.6 AT 05:42 CST CN MAY 05	15.9 CN MAY 05	0.083B CN MAR 06	40 400	1986
1987	15.0 AT 23:37 CST CN APR 08	12.6 B CN APR 08	0.188 CN JUN 30	29 200	1987
1988	85.6 AT 23:57 CST CN MAY 02	75.4 CN MAY 02	0.008 CN AUG 11	60 100	1988
1989	21.8 AT 14:56 CST CN JUN 27	19.3 CN JUN 27	0.043B CN MAR 15	19 500	1989
1990	47.0 AT 04:27 CST CN MAY 17	35.9 CN MAY 17	0.039 CN SEP 07	46 800	1990
				38 400	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

NORTH PINE RIVER NEAR PINE RIVER - STATION NO. 05LG001

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	0.582	6.18	9.13	2.32	0.969	2.08	1.65	---	---	---	1954
1955	---	---	---	1.54	3.56	1.43	0.315	0.020	0.074	0.143	---	---	---	1955
1956	---	---	---	0.062	3.32	2.94	1.86	0.204	0.326	0.311	---	---	---	1956
1957	---	---	0	1.36	3.54	0.457	0.177	0.062	0.127	0.123	---	---	0.732	1957
1958	---	---	0.100	0.603	0.390	0.228	1.76	0.269	1.14	0.728	---	---	0.652	1958
1959	---	---	0.206	0.614	1.67	3.80	1.33	0.145	2.63	1.68	---	---	1.50	1959
1960	---	---	0.026	1.38	5.29	3.02	0.782	0.268	0.185	0.260	---	---	1.40	1960
1961	---	---	0.029	0.127	0.315	0.072	0.013	0.004	0.014	0.109	---	---	0.085	1961
1962	---	---	0.029	0.461	0.622	0.446	0.154	0.126	0.379	0.237	---	---	0.305	1962
1963	---	---	0.024	1.11	2.35	2.03	0.441	0.051	0.095	0.104	---	---	0.772	1963
1964	---	---	0.177	0.578	1.45	0.131	0.061	0.053	0.062	0.109	---	---	0.328	1964
1965	---	---	0.087	0.541	4.29	1.73	1.16	1.72	1.86	0.587	---	---	1.50	1965
1966	---	---	0.157	0.614	4.83	3.81	1.61	0.781	0.078	0.167	---	---	1.51	1966
1967	---	---	0.234	0.975	5.22	2.08	0.621	1.01	0.197	0.496	---	---	1.36	1967
1968	---	---	0.145	0.584	1.58	1.38	1.49	2.50	0.604	0.438	---	---	1.09	1968
1969	---	---	0.181	2.10	1.65	1.30	1.85	0.805	1.09	2.80	---	---	1.47	1969
1970	---	---	0.317	1.21	7.07	2.69	4.31	1.28	0.984	2.18	---	---	2.52	1970
1971	---	---	0.198	3.22	1.96	2.91	2.15	0.745	0.213	1.60	---	---	1.62	1971
1972	---	---	0.142	2.03	4.86	1.23	0.870	0.215	0.154	0.195	---	---	1.21	1972
1973	---	---	0.067	0.433	4.75	5.37	2.46	0.639	1.88	0.725	---	---	1.65	1973
1974	---	---	0.226	3.10	7.52	2.74	0.813	0.660	1.75	0.970	---	---	2.22	1974
1975	---	---	0.122	1.40	5.72	3.76	0.861	0.411	1.81	1.66	---	---	1.96	1975
1976	---	---	0.176	3.49	2.04	6.70	1.51	0.673	0.201	0.174	---	---	1.85	1976
1977	---	---	0.100	1.09	1.29	0.295	1.67	1.02	1.58	2.13	---	---	1.39	1977
1978	---	---	0.114	0.922	1.41	1.43	0.455	0.110	0.546	0.662	---	---	0.702	1978
1979	---	---	0.149	0.581	8.64	3.23	0.575	0.458	0.479	0.475	---	---	1.83	1979
1980	---	---	0.252	1.94	0.569	0.319	0.264	2.45	0.480	0.545	---	---	0.851	1980
1981	---	---	0.353	0.511	0.785	2.54	0.518	0.238	0.150	0.503	---	---	0.696	1981
1982	---	---	0.033	0.761	0.955	0.402	2.62	0.741	0.389	1.25	---	---	0.898	1982
1983	---	---	0.101	1.12	5.64	2.30	2.21	0.632	0.465	0.608	---	---	1.64	1983
1984	---	---	0.120	1.23	3.03	5.28	1.35	0.856	0.754	1.59	---	---	1.77	1984
1985	---	---	0.048	2.93	2.17	2.37	1.40	3.79	1.47	1.41	---	---	1.94	1985
1986	---	---	0.269	2.41	4.01	1.15	1.17	0.565	1.31	1.97	---	---	1.58	1986
1987	---	---	0.556	2.76	1.12	1.10	2.22	0.399	0.415	0.960	---	---	1.19	1987
1988	---	---	0.420	2.65	9.87	1.60	0.756	0.307	0.205	0.219	---	---	2.01	1988
1989	---	---	0.050	0.409	0.465	3.01	0.997	0.564	0.548	0.595	---	---	0.823	1989
1990	---	---	0.185	2.65	6.13	2.16	1.34	0.362	0.104	0.165	---	---	1.64	1990
MEAN	---	---	0.159	1.35	3.33	2.34	1.26	0.705	0.779	0.825	---	---	1.31	MEAN

LOCATION - LAT 51 49 00 N DRAINAGE AREA, 210 km^2
LONG 100 32 00 W NATURAL FLOW

REMARKS - PUBLISHED AS PINE RIVER NEAR PINE RIVER PRIOR TO 1987

NORTH PINE RIVER NEAR PINE RIVER - STATION NO. 05LG001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	24.1 ON MAY 28	0 B ON APR 01 *	---	1954
1955	---	13.6 ON MAY 04	0 ON AUG 12	---	1955
1956	---	9.03 ON JUN 26	0 B ON APR 01	---	1956
1957	---	14.9 ON MAY 01	0 B ON MAR 01	15 500	1957
1958	13.6 AT 09:00 CST ON JUL 06	10.7 ON JUL 07	0 B ON MAR 01	13 800	1958
1959	19.8 AT 19:00 CST ON JUN 27	16.8 ON JUN 28	0 B ON MAR 22	31 800	1959
1960	13.1 AT 21:00 CST ON MAY 13	12.4 ON MAY 13	0 B ON MAR 01	29 600	1960
1961	---	0.450 ON MAY 07	0 B ON MAR 01	1 810	1961
1962	1.89 AT 00:25 CST ON MAY 31	1.66 ON MAY 31	0 B ON MAR 01	6 460	1962
1963	9.12 AT 20:30 CST ON MAY 13	7.99 ON MAY 14	0 B ON MAR 01	16 300	1963
1964	5.38 AT 18:40 CST ON MAY 08	4.84 ON MAY 09	0.020 ON JUL 27	6 940	1964
1965	19.3 AT 12:15 CST ON MAY 07	18.0 ON MAY 07	0.071B ON MAR 01	31 700	1965
1966	13.5 AT 11:30 CST ON MAY 19	12.7 ON MAY 19	0.031 ON SEP 23	31 900	1966
1967	11.6 B AT 02:00 CST ON MAY 07	9.46 B ON MAY 07	0.099 ON SEP 07	28 700	1967
1968	8.10 AT 08:05 CST ON AUG 20	7.79 ON AUG 20	0.110B ON MAR 01	23 100	1968
1969	14.5 AT 02:01 CST ON OCT 04	12.2 ON OCT 04	0.181B ON MAR 01	31 200	1969
1970	25.7 AT 19:10 CST ON JUL 24	19.8 ON JUL 25	0.317B ON MAR 01	53 300	1970
1971	12.5 AT 02:30 CST ON JUN 06	11.4 ON JUN 06	0.164 ON SEP 12	34 300	1971
1972	11.8 AT 01:30 CST ON APR 30	10.6 ON APR 30	0.122 ON AUG 27	25 700	1972
1973	26.4 AT 20:56 CST ON JUN 19	24.9 ON JUN 20	0.025B ON MAR 01	55 000	1973
1974	20.5 AT 00:06 CST ON MAY 22	18.0 ON MAY 22	0.198B ON MAR 30	47 000	1974
1975	13.1 AT 04:23 CST ON MAY 09	12.3 ON MAY 08	0.122B ON MAR 01	41 600	1975
1976	26.2 AT 04:49 CST ON JUN 14	24.9 ON JUN 14	0.133 ON SEP 23	39 200	1976
1977	10.8 AT 05:11 CST ON SEP 26	10.1 ON SEP 26	0.079B ON MAR 01	29 500	1977
1978	3.65 AT 22:00 CST ON APR 27	3.23 ON APR 28	0.048 ON AUG 12	14 900	1978
1979	25.3 AT 01:39 CST ON MAY 26	23.8 ON MAY 26	0.133B ON MAR 01	38 700	1979
1980	9.37 AT 11:45 CST ON AUG 08	8.58 ON AUG 08	0.113 ON JUL 31	18 000	1980
1981	8.64 AT 11:36 CST ON JUN 18	7.50 ON JUN 18	0.075 ON SEP 11	14 700	1981
1982	21.6 AT 14:29 CST ON JUL 17	16.0 ON JUL 18	0.020B ON MAR 01	19 000	1982
1983	14.3 AT 03:19 CST ON MAY 19	12.9 ON MAY 19	0.080B ON APR 03	34 700	1983
1984	27.6 AT 09:11 CST ON JUN 23	24.3 ON JUN 23	0.052B ON MAR 31	37 400	1984
1985	21.7 AT 05:48 CST ON AUG 14	19.0 ON AUG 14	0 B ON MAR 01	41 200	1985
1986	10.2 AT 04:19 CST ON SEP 27	9.47 ON SEP 27	0.010E ON SEP 04	33 500	1986
1987	6.49 AT 03:27 CST ON APR 09	5.61 ON APR 09	0.140B ON MAR 01	25 200	1987
1988	36.3 AT 21:40 CST ON MAY 02 *	32.2 ON MAY 02 *	0.131 ON SEP 17	42 500	1988
1989	14.7 AT 09:44 CST ON JUN 27	13.9 ON JUN 27	0.039B ON MAR 12	17 400	1989
1990	21.6 AT 02:59 CST ON MAY 17	18.9 ON MAY 17	0.067 ON SEP 24	34 600	1990
				27 800	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

NORTH SEAL RIVER BELOW STONY LAKE - STATION NO. 06GB001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	---	---	---	---	---	266	209	163	---	1972
1973	98.2	66.2	56.1	43.2	79.6	143	126	87.4	63.9	55.1	52.1	42.3	75.9	1973
1974	39.1	36.9	31.0	24.8	---	---	101	173	194	156	112	87.6R	---	1974
1975	63.9	45.5	37.3	41.7	115	196	208	154	107	86.9	77.4R	70.5	101 R	1975
1976	63.9	49.8	41.0	39.8	---	---	230	136	103	139	135	100	---	1976
1977	79.7R	63.8	51.0	56.1	179	270	248	289	219	172	125	89.7	155 R	1977
1978	66.2	49.7	36.6	28.5	40.4	155	279	274	380	297	195	123	169	1978
1979	80.8	57.9	42.9	34.9	39.3	213	195	123	82.7	70.1	66.6	55.8	88.6	1979
1980	40.4	33.6	29.6	35.0	79.7	127	131	172	381	278	180	115	134	1980
1981	72.3R	52.0	41.1	36.3	70.6	200	199	158	173	105	88.9	66.7	101 R	1981
1982	48.4	38.4	32.1	27.6	83.1	214	215	130	143	111	110	75.9R	99.3R	1982
1983	58.7	49.0	42.6	39.1	46.6	376	459	292	279	306	250	151	196	1983
1984	106	78.7	58.2	57.1	213	264	199	143	110	105	86.4	68.8	124	1984
1985	56.8	48.9	43.7	40.0	144	340	204	121	99.3	115	117	86.9	118	1985
1986	67.1	53.0	41.3	31.8	126	667	380	224	148	114	88.4	70.7	168	1986
1987	62.0	51.8	44.5	37.1	125	286	298	167	119	109	102	84.8	125	1987
1988	77.9	65.7	51.7	40.5	58.4	501	395	204	117	85.0	70.8	60.9	144	1988
1989	57.2	48.8	40.4	34.2	107	426	303	170	132	144	119	75.5	138	1989
1990	60.4	51.4	44.0	38.3	54.7	217	229	158	140	138	115	94.7	112	1990
MEAN	66.4R	52.4	42.5	38.1	97.6	294	244	176	161	150	121 R	88.6R	128 R	MEAN

LOCATION - LAT 58 50 40 N DRAINAGE AREA, 18 400 km^2
LONG 098 17 20 W NATURAL FLOW

R - REVISED SINCE JAN 01 1989

NORTH SEAL RIVER BELOW STONY LAKE - STATION NO. 06GB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	---	---	1972
1973	---	149 ON JUN 13	39.6B ON DEC 26	2 390 000	1973
1974	203 AT 14:00 CST ON SEP 08	200 ON SEP 08	---	---	1974
1975	225 AT 17:00 CST ON JUL 02	222 ON JUL 02	36.0B ON MAR 26	3 170 000	1975
1976	283 AT 11:35 CST ON JUN 21	281 ON JUN 21	---	---	1976
1977	317 AT 10:30 CST ON AUG 11	314 ON AUG 11	45.3B ON APR 06	4 880 000	1977
1978	408 AT 17:16 CST ON SEP 11	405 ON SEP 11	27.8B ON APR 29	5 330 000	1978
1979	251 AT 18:40 CST ON JUN 18	247 ON JUN 18	32.6B ON MAY 02	2 790 000	1979
1980	424 AT 16:57 CST ON SEP 18	422 ON SEP 18	27.8B ON APR 08	4 230 000	1980
1981	215 AT 14:56 CST ON JUL 05	214 ON JUL 09	35.6B ON APR 30	3 190 000	1981
1982	252 AT 15:45 CST ON JUL 01	252 ON JUL 03	26.1B ON APR 25 *	3 130 000	1982
1983	609 AT 20:20 CST ON JUN 28	604 ON JUN 29	38.1B ON APR 26	6 190 000	1983
1984	286 ON JUN 20	281 ON JUN 10	43.2B ON APR 17	3 930 000	1984
1985	362 AT 18:00 CST ON JUN 14	362 ON JUN 10	38.9B ON APR 27	3 730 000	1985
1986	785 ON JUN 13 *	778 ON JUN 13 *	27.0B ON MAY 03	5 290 000	1986
1987	355 AT 15:30 CST ON JUL 03	352 ON JUL 03	34.8B ON APR 19	3 930 000	1987
1988	603 AT 21:30 CST ON JUN 21	603 ON JUN 25	35.3B ON MAY 12	4 550 000	1988
1989	464 AT 19:15 CST ON JUN 18	464 ON JUN 19	31.8B ON MAY 07	4 370 000	1989
1990	258 AT 23:13 CST ON JUN 29	258 ON JUN 30	35.2B ON MAY 09	3 540 000	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		4 040 000	MEAN

NORTH SHANNON CREEK NEAR MYRTLE - STATION NO. 05OF015

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.026	3.14	0.033	0.036	0.004	0	0	0	---	---	0.396	1960
1961	---	---	0.752	0.063	0	0	0	0	0	0	---	---	0.103	1961
1962	---	---	0	1.42	0.681	0.352	0	0	0	0	---	---	0.303	1962
1963	---	---	0.090	0.017	0	1.12	0	0	0	0	---	---	0.151	1963
1964	---	---	0	0.668	0.007	0	0	0	0.253	0	---	---	0.114	1964
1965	---	---	0	1.48	0.333	0.015	0	0	0	0	---	---	0.225	1965
1966	---	---	2.53	7.38	0.750	0	2.67	0	0	0	---	---	1.66	1966
1967	---	---	0.005	2.66	0.189	0	0	0	0	0	---	---	0.350	1967
1968	---	---	0.140	0.017	0.004	0	0	1.29	0.226	0.001	---	---	0.212	1968
1969	---	---	0	3.83	0.066	0.073	1.00	0.001	0	0	---	---	0.612	1969
1970	---	---	0	6.23	0.945	0.052	0	0	0	0	---	---	0.889	1970
1971	---	---	0	4.20	0.013	0.059	0.024	0	0	0	---	---	0.526	1971
1972	---	---	1.47	1.15	0.130	0	0	0	0	0	---	---	0.344	1972
1973	---	---	0.058	0.002	0	0	0	0	0	0	---	---	0.008	1973
1974	---	---	0	8.17	4.38	0.155	0	0	0	0	---	---	1.57	1974
1975	---	---	0	0.457	0.101	0.081	0.130	0	0	0	---	---	0.095	1975
1976	---	---	0	2.88	0.004	0.059	0	0	0	0	---	---	0.360	1976
1977	---	---	0	0.051	0	0	0	0	0.077	0.082	---	---	0.026	1977
1978	---	---	0.108	1.05	0.099	0.863	0	0	0	0	---	---	0.261	1978
1979	---	---	0	6.92	0.863	0.091	0.028	0	0	0	---	---	0.971	1979
1980	---	---	0	0.181	0	0	0	0	0	0	---	---	0.022	1980
1981	---	---	0.074	0.005	0.020	0.003	0	0	0	0	---	---	0.013	1981
1982	---	---	0.194	0.688	0.001	0	0	0	0	0	---	---	0.109	1982
1983	---	---	0.121	1.51	0.005	0	0	0	0	0	---	---	0.201	1983
1984	---	---	0.047	0.026	0.001	0	0	0	0	0	---	---	0.009	1984
1985	---	---	1.01	0.059	0	0	0	1.16	0.038	0.020	---	---	0.289	1985
1986	---	---	1.30	0.663	3.39	0.001	0.011	0.003	0	0	---	---	0.676	1986
1987	---	---	0.008	2.27	0	0	0	0	0	0	---	---	0.279	1987
1988	---	---	0.033	0.066	0.013	0.002	0	0	0	0	---	---	0.014	1988
1989	---	---	0	0.500	0.002	0	0	0	0	0	---	---	0.061	1989
1990	---	---	0.340	0.623	0.001	0.331	0.031	0	0	0	---	---	0.164	1990
MEAN	---	---	0.268	1.88	0.388	0.106	0.126	0.079	0.019	0.003	---	---	0.355	MEAN

LOCATION - LAT 49 20 34 N LONG 097 50 33 W DRAINAGE AREA, 168 km² NATURAL FLOW

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "SHANNON CREEK TRIBUTARY NEAR MYRTLE"

NORTH SHANNON CREEK NEAR MYRTLE - STATION NO. 05OF015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	16.3 ON APR 06	0B ON MAR 01 *	8 390	1960
1961	---	5.83 B ON MAR 24	0B ON MAR 01	2 180	1961
1962	---	14.7 B ON APR 20	0B ON MAR 01	6 420	1962
1963	---	17.2 ON JUN 05	0 ON MAR 01	3 200	1963
1964	---	3.62 B ON APR 09	0B ON MAR 01	2 410	1964
1965	---	7.45 B ON APR 11	0B ON MAR 01	4 770	1965
1966	---	78.2 B ON APR 01	0B ON MAR 01	35 000	1966
1967	---	19.3 B ON APR 21	0B ON MAR 01	7 400	1967
1968	---	13.1 ON AUG 25	0B ON MAR 01	4 480	1968
1969	---	43.6 B ON APR 10	0B ON MAR 01	13 000	1969
1970	---	43.6 ON APR 18	0B ON MAR 01	18 800	1970
1971	---	59.2 B ON APR 10	0B ON MAR 01	11 100	1971
1972	---	8.98 B ON MAR 19	0B ON MAR 01	7 270	1972
1973	---	0.190B ON MAR 22	0B ON MAR 01	160	1973
1974	---	81.0 ON APR 17 *	0B ON MAR 01	33 300	1974
1975	---	3.40 ON APR 15	0B ON MAR 01	2 010	1975
1976	---	34.5 B ON APR 04	0B ON MAR 01	7 620	1976
1977	1.16 AT 16:50 CST ON SEP 29	1.06 ON SEP 29	0B ON MAR 01	549	1977
1978	3.94 AT 05:20 CST ON JUN 08	1.82 ON JUN 08	0 ON JUL 02	5 520	1978
1979	---	64.8 B ON APR 20	0B ON MAR 01	20 600	1979
1980	1.21 B AT 11:06 CST ON APR 08	1.14 B ON APR 08	0B ON MAR 01	470	1980
1981	---	0.200B ON MAR 15	0B ON MAR 01	270	1981
1982	3.06 B AT 09:14 CST ON APR 13	2.48 B ON MAR 30	0B ON MAR 01	2 300	1982
1983	10.8 B AT 21:19 CST ON APR 05	8.97 B ON APR 05	0B ON MAR 01	4 250	1983
1984	0.740B AT 07:53 CST ON MAR 29	0.504B ON MAR 29	0B ON MAR 01	196	1984
1985	25.4 AT 13:14 CST ON AUG 18	13.1 ON AUG 18	0B ON MAR 01	6 130	1985
1986	54.4 AT 07:47 CST ON MAY 12 *	33.0 ON MAY 12	0B ON MAR 01	14 300	1986
1987	---	---	0B ON MAR 01	5 910	1987
1988	---	0.562B ON APR 03	0B ON MAR 01	299	1988
1989	8.30 B AT 06:21 CST ON APR 15	6.72 B ON APR 15	0B ON MAR 01	1 300	1989
1990	---	5.59 B ON APR 01	0B ON MAR 01	3 470	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		7 520	MEAN

NORTH SNAKE CREEK NEAR BIRNIE - STATION NO. 05LL017

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0.051	1.72	0.742	1.02	0.818	0.186	0.109	0.147	---	---	0.595	1969
1970	---	---	0.057	0.944	3.29	0.398	0.257	0.056	0.101	0.121	---	---	0.654	1970
1971	---	---	0.019	1.36	0.271	0.954	0.336	0.080	0.100	0.290	---	---	0.422	1971
1972	---	---	0.032	1.22	0.494	0.153	0.048	0.028	0.016	0.032	---	---	0.250	1972
1973	---	---	0.115	0.753	0.179	0.105	0.012	0.017	0.048	0.090	---	---	0.100	1973
1974	---	---	0.014	1.27	1.44	0.343	0.085	0.029	0.048	0.049	---	---	0.408	1974
1975	---	---	0.011	0.827	0.563	0.546	0.159	0.890	1.50	0.400	---	---	0.608	1975
1976	---	---	0.112	2.02	0.369	0.366	0.081	0.023	0.005	0.047	---	---	0.372	1976
1977	---	---	0.024	0.114	0.200	0.113	0.081	0.005	0.224	0.078	---	---	0.105	1977
1978	---	---	0.038	0.721	0.240	0.132	0.026	0	0.062	0.041	---	---	0.156	1978
1979	---	---	0.027	0.932	2.63	0.457	0.124	0.061	0.048	0.085	---	---	0.546	1979
1980	---	---	0.022	0.258	0.041	0.001	0.015	0.268	0.137	0.136	---	---	0.109	1980
1981	---	0.078	0.213	0.205	0.094	0.172	0.032	0.002	0.023	0.105	---	---	0.105	1981
1982	---	---	0.001	1.01	0.166	0.095	0.265	0.030	0.017	0.117	---	---	0.210	1982
1983	---	---	0.021	0.962	0.475	0.255	0.128	0.003	0	0.019	---	---	0.231	1983
1984	---	---	0.057	0.205	0.209	0.387	0.008	0	0.006	0.207	---	---	0.134	1984
1985	---	---	0.009	0.864	0.228	0.235	0.191	0.379	0.198	0.276	---	---	0.296	1985
1986	---	---	0.349	1.18	2.38	0.371	0.605	0.225	0.150	0.167	---	---	0.679	1986
1987	---	---	0.066	1.25	0.297	0.195	0.096	0.021	0.018	0.105	---	---	0.250	1987
1988	---	---	0.003	0.554	0.334	0.019	0	0	0	0	---	---	0.113	1988
1989	---	---	0	0.120	0.036	0.142	0	0	0	0	---	---	0.037	1989
1990	---	---	0.038	0.471	0.595	0.161	0.044	---	---	---	---	---	---	1990
MEAN	---	0.078	0.058	0.833	0.694	0.305	0.155	0.110	0.134	0.120	---	---	0.304	MEAN

LOCATION - LAT 50 26 50 N DRAINAGE AREA, 62.9 km²
LONG 099 27 00 W NATURAL FLOW

REMARKS - PRIOR TO 1989 PUBLISHED AS "BIRNIE CREEK"

NORTH SNAKE CREEK NEAR BIRNIE - STATION NO. 05LL017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	10.7 ON JUN 27	0.028 ON SEP 14	12 600	1969
1970	15.3 AT 03:50 CST ON MAY 07 *	12.9 ON MAY 07 *	0.042 ON AUG 19	13 900	1970
1971	6.43 AT 20:53 CST ON JUN 06	4.93 ON APR 20	0.019B ON MAR 01	8 940	1971
1972	---	4.13 ON APR 22	0 ON AUG 27 *	5 300	1972
1973	1.51 AT 11:19 CST ON OCT 04	0.633 ON MAY 07	0 ON JUL 12	2 110	1973
1974	8.24 AT 03:29 CST ON MAY 12	6.77 ON MAY 12	0.014B ON MAR 01	8 640	1974
1975	14.8 AT 10:05 CST ON SEP 19	10.8 ON SEP 19	0.011B ON MAR 01	12 900	1975
1976	---	5.52 ON APR 10	0 ON AUG 24	7 880	1976
1977	1.42 AT 00:36 CST ON SEP 26	1.27 ON SEP 26	0 ON JUL 09	2 220	1977
1978	2.35 AT 21:59 CST ON APR 24	1.99 ON APR 10	0 A ON AUG 01	3 300	1978
1979	14.9 AT 06:30 CST ON MAY 17	11.7 ON MAY 17	0 ON AUG 30	11 600	1979
1980	2.64 AT 04:48 CST ON AUG 21	2.18 ON AUG 21	0 ON MAY 29	2 320	1980
1981	1.14 AT 17:42 CST ON APR 01	0.860 ON MAR 31	0 ON JUL 27	2 230	1981
1982	---	3.95 B ON APR 15	0 B ON MAR 01	4 450	1982
1983	---	5.25 B ON APR 24	0 ON AUG 09	4 890	1983
1984	4.79 AT 08:28 CST ON JUN 23	3.65 ON JUN 23	0 B ON MAR 01	2 840	1984
1985	2.59 AT 01:10 CST ON APR 16	2.57 B ON APR 15	0 B ON MAR 01	6 260	1985
1986	13.0 A AT 20:00 CST ON MAY 05	8.31 E ON MAY 05	0.032B ON MAR 13	14 400	1986
1987	4.24 AT 23:53 CST ON APR 07	3.70 ON APR 10	0 ON AUG 08	5 290	1987
1988	2.96 AT 18:15 CST ON APR 04	2.33 B ON APR 04	0 B ON MAR 01	2 390	1988
1989	1.79 AT 17:03 CST ON JUN 13	1.54 ON JUN 13	0 B ON MAR 01	778	1989
1990	6.02 AT 01:29 CST ON MAY 17	5.00 ON MAY 17	0 B ON MAR 01	---	1990
				6 440	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

OAK CREEK NEAR CYPRESS RIVER - STATION NO. 05NG028

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1975	---	---	0 R	0.820R	1.02 R	0.170R	0.004R	0 R	0 R	0 R	---	---	0.251R	1975
1976	---	---	0 R	9.77 R	0.594R	0.066R	0.022R	0 R	0 R	0 R	---	---	1.28 R	1976
1977	---	---	0 R	0 R	0.071R	0.002R	0 R	0 R	0 R	0 R	---	---	0.009R	1977
1978	---	---	0.014R	1.32 R	0.213R	0.091R	0.021R	0 R	0 R	0 R	---	---	0.205R	1978
1979	---	---	0 R	5.22 R	2.27 R	0.243R	0.014R	0 R	0 R	0 R	---	---	0.957R	1979
1980	---	---	0 R	0.230R	0.056R	0 R	0 R	0 R	0 R	0 R	---	---	0.035R	1980
1981	---	---	0.076R	0.013R	0.027R	0.026R	0.010R	0.038R	0.050R	0.033R	---	---	0.034R	1981
1982	---	---	0.124R	4.19 R	0.171R	0.073R	0.022R	0.004R	0 R	0 R	---	---	0.196R	1982
1983	---	---	0.186R	2.48 R	0.257R	0.092R	0.009R	0 R	0 R	0 R	---	---	0.372R	1983
1984	---	---	0.095R	0.078R	0.144R	0.068R	0.017R	0 R	0 R	0.001R	---	---	0.050R	1984
1985	---	---	1.42 R	0.453R	0.039R	0.003R	0.001R	0.024R	0.001R	0.002R	---	---	0.244R	1985
MEAN	---	---	0.174R	1.96 R	0.442R	0.076R	0.011R	0.006R	0.005R	0.003R	---	---	0.330R	MEAN

LOCATION - LAT 49 28 40 N, LONG 099 09 20 W
DRAINAGE AREA, 434 km^2
NATURAL FLOW
R - REVISED SINCE JAN 01 1989

REMARKS - PRIOR TO 1987 PUBLISHED AS 05MH012 "OXTAIL CREEK"

OAK CREEK NEAR CYPRESS RIVER - STATION NO. 05NG028

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1975	---	3.40 R ON MAY 03	ORB ON MAR 01 *	5 310	1975
1976	---	26.0 RB ON APR 08 *	ORB ON MAR 01	27 100	1976
1977	---	0.258R ON MAY 21	ORB ON MAR 01	197	1977
1978	---	3.99 RB ON APR 07	ORB ON MAR 01	4 330	1978
1979	---	26.0 R ON APR 22	ORB ON MAR 01	20 300	1979
1980	0.856R AT 00:01 CST ON APR 07	0.746RB ON APR 06	ORB ON MAR 01	746	1980
1981	0.390R AT 12:06 CST ON MAR 16	0.326RB ON MAR 16	ORB ON MAR 04	725	1981
1982	---	2.06 RB ON APR 16	ORB ON MAR 01	4 140	1982
1983	8.20 RB AT 17:58 CST ON APR 05 *	7.12 RB ON APR 05	ORB ON MAR 01	7 870	1983
1984	---	0.784RB ON MAR 25	ORB ON MAR 01	1 070	1984
1985	6.81 RB AT 13:18 CST ON MAR 23	6.23 RB ON MAR 23	ORB ON MAR 01	5 170	1985
				7 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1989

OAK CREEK NEAR GLENBORO - STATION NO. 05NG027

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1986	---	---	1.19 R	1.53 R	1.73 R	0.172R	0.258R	0.027R	0.003R	0.004R	---	---	0.616R	1986
1987	---	---	0.296	2.43	0.066	0.002	0	0.334	0.003	0.061	---	---	0.394	1987
1988	---	---	0.049	0.087	0.087	0.001	0	0	0	0	---	---	0.028	1988
1989	---	---	0	0.759	0.018	0.407	0.001	0	0	0	---	---	0.145	1989
1990	---	---	0.165	0.783	0.089	0.459	0.056	0	0	0	---	---	0.191	1990
MEAN	---	---	0.340R	1.12 R	0.398R	0.208R	0.063R	0.072R	0.001R	0.013R	---	---	0.275R	MEAN

LOCATION - LAT 49 29 22 N, LONG 099 10 16 W
DRAINAGE AREA, 496 km^2
NATURAL FLOW
R - REVISED SINCE JAN 01 1989

REMARKS - PRIOR TO 1987 PUBLISHED AS 05MH014 "OXTAIL CREEK"

OAK CREEK NEAR GLENBORO - STATION NO. 05NG027

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1986	4.51RB AT 09:20 CST ON MAR 24	4.02 R ON MAR 28	ORB ON MAR 01 *	13 000	1986
1987	6.80 AT 05:43 CST ON APR 06 *	6.65 ON APR 06 *	OB ON MAR 01	8 340	1987
1988	1.67 AT 14:01 CST ON MAY 02	0.652 ON MAY 21	OB ON MAR 01	590	1988
1989	3.52 AT 07:54 CST ON JUN 13	3.22 ON JUN 13	OB ON MAR 01	3 070	1989
1990	4.24 AT 10:07 CST ON JUN 08	3.32 ON APR 01	OB ON MAR 01	4 050	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1989		5 810	MEAN

OAK CREEK NEAR STOCKTON - STATION NO. 05NG010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.617	1.53	1.17	0.288	0.014	0	0	0	---	---	---	1961
1962	---	---	0	3.73	0.745	1.63	0.158	0.378	0.042	0.005	---	---	---	1962
1963	---	---	0.829	0.868	0.698	0.307	0.126	0.130	0.079	0.011	---	---	---	1963
1964	---	---	0	0.991	0.917	0.186	0.056	0.012	0.010	0.009	---	---	---	1964
1965	---	---	0	3.73	1.83	0.578	0.697	0.076	0.115	0.113	---	---	---	1965
1966	---	---	2.75	2.90	1.37	0.416	0.344	0.076	0.031	0.018	---	---	---	1966
1967	---	---	0.031	0.779	0.937	0.310	0.059	0.004	0.006	0.008	---	---	---	1967
1968	---	---	0.290	0.151	0.061	0.010	0.044	0.207	0.365	0.312	---	---	---	1968
1969	---	---	0	10.4	2.69	0.358	0.455	0.307	0.260	0.193	---	---	---	1969
1970	---	---	0.005	4.63	7.91	1.91	0.755	0.407	0.173	0.060	---	---	---	1970
1971	---	---	0	1.93	1.81	0.10	0.785	0.219	0.075	0.074	---	---	---	1971
1972	---	---	2.02	3.05	1.25	0.447	0.198	0.198	0.219	0.234	---	---	---	1972
1973	---	---	0.039	0.074	0.140	0.104	0.160	0.141	0.046	0.031	0.016	0.004	---	1973
1974	0.001	0	0	14.7	8.72	2.33	0.461	0.269	0.131	0.039	0.042	0.019	2.22	1974
1975	0.017	0.016	0.013	1.95	2.31	0.609	0.125	0.123	0.225	0.189	0.075	0.019	0.474	1975
1976	0.015	0.015	0.010	18.8	3.84	0.438	0.039	0.010	0.008	0.014	0.016	0.014	1.91	1976
1977	0.005	0.003	0.003	0.016	0.021	0.001	0.008	0.002	0.008	0.005	0.007	0.003	0.007	1977
1978	0.006	0.005	0.156	2.59	0.495	0.107	0.085	0.012	0	0.001	0.001	0.002	0.287	1978
1979	0.002	0.002	0.002	3.83	5.67	0.957	0.324	0.147	0.036	0.022	0.018	0.015	0.923	1979
1980	0.011	0.013	0.006	0.252	0.012	0.004	0.013	0.118	0.001	0.004	0.007	0.002	0.037	1980
1981	0.001	0.257	0.028	2.903	0.003	0.004	0.001	0.645	0.280	0.019	0.022	0.014	0.106	1981
1982	0.005	0.004	0.885	2.310	0.901	0.188	0.234	0.035	0	0.002	0.005	0.007	0.172	1982
1983	0.006	0.007	1.20	4.67	1.11	0.341	0.152	0.014	0.001	0.001	0.001	0.002	0.642	1983
1984	0.001	0.001	0.100	0.011	0.001	0.003	0.001	0	0	0	0	0	0.010	1984
1985	0	0	2.31	1.53	0.180	0.010	0.007	0.003	0.001	0.007	0.002	0.001	0.340	1985
1986	0.001	0.001	1.52	2.37	3.60	0.517	0.447	0.242	0.029	0.007	0.004	0.004	0.733	1986
1987	0.003	0.002	1.17	1.80	0.959	0.209	0.043	0.132	0.002	0.002	0.001	0.001	0.362	1987
1988	0.001	0.001	0.008	0.020	0.003	0.003	0.001	0	0	0	0	0	0.003	1988
1989	0	0	0	1.36	0.005	0.001	0	0	0	0	0	0	0.113	1989
1990	0	0	0.085	0.180	0.015	0.003	0.005	0	0	0	0	0	0.024	1990
MEAN	0.004	0.019	0.469	3.04	1.65	0.446	0.193	0.130	0.071	0.046	0.012	0.006	0.504	MEAN

LOCATION - LAT 49 33 44 N LONG 099 30 49 W DRAINAGE AREA, 1 030 km^2 NATURAL FLOW

OAK CREEK NEAR STOCKTON - STATION NO. 05NG010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	5.64 B ON MAR 26	0 B ON MAR 01 *	---	1961
1962	---	26.9 ON APR 17	0 B ON MAR 01	---	1962
1963	---	7.42 B ON MAR 23	0 B ON MAR 01	---	1963
1964	---	2.75 B ON APR 06	0 B ON MAR 01	---	1964
1965	---	23.6 B ON APR 11	0 B ON MAR 01	---	1965
1966	---	13.8 B ON MAR 17	0 B ON MAR 01	---	1966
1967	---	1.47 ON APR 27	0 B ON MAR 01	---	1967
1968	---	1.29 ON AUG 25	0 ON AUG 10	---	1968
1969	---	37.9 ON APR 11	0 B ON MAR 01	---	1969
1970	---	15.7 ON APR 25	0 B ON MAR 01	---	1970
1971	---	6.06 B ON APR 08	0 B ON MAR 01	---	1971
1972	---	12.0 B ON MAR 16	0 B ON MAR 01	---	1972
1973	1.27 AT 00:29 CST ON JUL 26	0.926 ON JUL 26	0 B ON MAR 01	---	1973
1974	58.6 B AT 18:17 CST ON APR 18 *	43.0 B ON APR 18 *	0 B ON JAN 15	69 900	1974
1975	8.13 AT 02:49 CST ON APR 29	7.65 ON APR 29	0.010B ON DEC 29	14 900	1975
1976	---	40.5 ON APR 06	0.002B ON APR 01	60 500	1976
1977	0.804 AT 14:59 CST ON NOV 16	0.144 ON MAY 06	0 ON MAY 31	218	1977
1978	10.5 B AT 05:43 CST ON APR 06	9.63 B ON APR 06	0 ON SEP 03	9 040	1978
1979	29.8 B AT 16:56 CST ON APR 21	21.7 B ON APR 21	0.002B ON JAN 01	29 100	1979
1980	4.02 AT 03:27 CST ON AUG 21	2.38 ON AUG 21	0 ON MAY 28	1 160	1980
1981	14.1 AT 06:59 CST ON AUG 31	7.66 ON AUG 31	0 B ON JAN 25	3 330	1981
1982	17.8 B AT 15:44 CST ON MAR 30	13.7 B ON MAR 30	0 ON SEP 02	11 700	1982
1983	18.2 B AT 19:56 CST ON MAR 31	17.6 B ON MAR 31	0.001 ON AUG 30	20 300	1983
1984	0.921B AT 19:46 CST ON MAR 24	0.665B ON MAR 25	0 ON APR 23	314	1984
1985	13.9 B AT 19:13 CST ON MAR 21	11.9 B ON MAR 21	0 B ON JAN 01	10 700	1985
1986	11.0 AT 23:49 CST ON MAY 05	12.5 ON MAY 06	0.001B ON JAN 01	23 100	1986
1987	17.6 B AT 23:13 CST ON MAR 23	8.82 B ON MAR 24	0 ON SEP 28	11 400	1987
1988	0.232B AT 20:41 CST ON APR 01	0.169B ON APR 02	0 ON JUL 26	96.1	1988
1989	11.8 B AT 20:41 CST ON APR 03	9.66 B ON APR 03	0 B ON JAN 01	3 550	1989
1990	2.77 B AT 01:02 CST ON APR 01	2.15 B ON APR 01	0 B ON JAN 01	757	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		15 900	MEAN

OAK RIVER AT SHOAL LAKE - STATION NO. 05MG008

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	0.192	0.046	0.018	0	0	0	0	---	---	0.031	1965
1966	---	---	0.006	0.169	0.342	0.031	0.006	0	0	0	---	---	0.069	1966
1967	---	---	0	1.97	1.05	0.074	0.006	0	0	0	---	---	0.383	1967
1968	---	---	0.134	0.089	0.002	0	0	0	0	0	---	---	0.028	1968
1969	0	0	0	0.806	0.212	0.022	0.029	0.002	0	0.001	0	0	0.132	1969
1970	0	0	0	0.338	0.454	0.096	0.037	0.001	0.011	0.006	0.005	0.002	0.118	1970
1971	0	0	0	0.280	0.224	0.325	0.250	0.054	0.003	0.030	0.008	0	0.145	1971
1972	0	0	0.001	1.20	1.15	0.337	0.032	0.001	0	0	0	0	0.330	1972
1973	0	0	0.016	0.002	0.001	0.002	0	0	0	0	0	0	0.003	1973
1974	0	0	0	1.18	0.926	0.321	0.131	0.003	0	0	0	0	0.317	1974
1975	0	0	0	0.414	0.708	0.280	0.164	0.134	0.292	0.349	0.226	0.084	0.292	1975
1976	0.032	0.011	0.002	3.97	1.53	0.333	0.289	0.081	0.010	0.004	0.001	0	0.770	1976
1977	0	0	0.005	0.023	0.010	0	0	0	0	0	0	0	0.005	1977
1978	0	0	0.001	0.190	0.021	0.005	0	0	0	0	0	0	0.027	1978
1979	0	0	0	1.19	1.74	0.575	0.216	0.150	0	0	0	0	0.483	1979
1980	0	0	0	0.029	0	0	0	0	0.001	0.001	0.001	0	0.004	1980
1981	0	0	0.005	0.008	0.010	0.008	0.001	0	0	0	0	0	0.004	1981
1982	0	0	0	0.054	0	0	0.223	0.023	0	0	0.001	0	0.038	1982
1983	0	0	0	0.790	0.232	0	0	0	0	0	0	0	0.126	1983
1984	0	0	0	0	0	0.013	0	0	0	0	0	0	0.002	1984
1985	0	0	0.048	0.267	0.005	0	0	0.048	0.032	0.007	0.001	0	0.050	1985
1986	0	0	0.102	2.32	0.884	0.116	0.030	0.082	0	0	0	0	0.437	1986
1987	0	0	0.013	1.81	0.204	0.034	0.012	0.008	0	0	---	---	0.255	1987
1988	---	---	0.007	0.072	0.063	0.004	0	0	0	0	---	---	0.018	1988
1989	---	---	0	0.065	0.003	0	0	0	0	0	---	---	0.008	1989
1990	---	---	0.001	0.805	0.150	0.033	0.029	0.002	0	0	---	---	0.126	1990
MEAN	0.002	0.001	0.013	0.701	0.383	0.101	0.056	0.023	0.013	0.015	0.014	0.005	0.162	MEAN

LOCATION - LAT 50 26 33 N DRAINAGE AREA, 372 km²
LONG 100 35 16 W NATURAL FLOW

OAK RIVER AT SHOAL LAKE - STATION NO. 05MG008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	0.779B ON APR 14	OB ON MAR 01 *	665	1965
1966	---	1.04 ON MAY 03	OB ON MAR 01	1 470	1966
1967	---	6.51 ON APR 25	OB ON MAR 01	8 100	1967
1968	---	1.37 B ON MAR 28	OB ON MAR 01	596	1968
1969	3.03 B AT 21:15 CST ON APR 10	2.68 ON APR 11	OB ON MAR 01	2 800	1969
1970	1.38 AT 02:57 CST ON APR 30	1.26 ON APR 30	OB ON MAR 01	2 490	1970
1971	1.23 AT 06:37 CST ON JUN 10	1.06 ON JUN 10	OB ON MAR 01	3 070	1971
1972	3.40 AT 01:43 CST ON APR 17	3.26 ON APR 17	OB ON MAR 01	7 150	1972
1973	---	0.099B ON MAR 19	OB ON MAR 01	55.5	1973
1974	---	4.28 B ON APR 21	OB ON MAR 01	6 720	1974
1975	2.02 AT 08:11 CST ON MAY 01	1.97 ON MAY 01	OB ON MAR 01	6 190	1975
1976	8.67 AT 17:51 CST ON APR 18 *	7.79 ON APR 14 *	OB ON MAR 30	16 300	1976
1977	0.153 AT 03:31 CST ON APR 08	0.068 ON APR 08	OB ON MAR 01	103	1977
1978	---	0.408B ON APR 07	OB ON MAR 01	564	1978
1979	4.23 AT 00:00 CST ON APR 25	4.14 B ON APR 24	OB ON MAR 01	10 200	1979
1980	---	0.310B ON APR 09	OB ON MAR 01	78.3	1980
1981	---	0.014 ON JUN 26	OB ON MAR 01	82.3	1981
1982	---	0.586 ON JUL 29	OB ON MAR 01	799	1982
1983	2.77 AT 12:00 CST ON APR 24	2.76 ON APR 24	OB ON MAR 01	2 670	1983
1984	0.139 AT 07:28 CST ON JUN 23	0.081 ON JUN 23	OB ON MAR 01	34.8	1984
1985	2.45 B AT 22:10 CST ON APR 08	1.15 B ON APR 09	OB ON MAR 01	1 060	1985
1986	5.39 AT 19:07 CST ON APR 03	4.54 B ON APR 02	OB ON MAR 01	9 250	1986
1987	5.67 B AT 18:03 CST ON APR 06	4.51 ON APR 08	OB ON MAR 01	5 410	1987
1988	0.519B AT 09:12 CST ON APR 09	0.346B ON APR 09	OB ON MAR 01	361	1988
1989	0.177 AT 16:23 CST ON APR 05	0.121 ON APR 06	OB ON MAR 01	176	1989
1990	4.36 AT 17:18 CST ON APR 15	2.12 ON APR 15	OB ON MAR 01	2 660	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		3 430	MEAN

OAK RIVER NEAR BRADWARDINE - STATION NO. 05MG010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	1.50	2.30	1.19	0.094	0.015	0.014	0.014	0.018	---	---	---	1966
1967	---	---	0	8.01	2.81	0.492	0.006	0.002	0	0.007	---	---	---	1967
1968	---	---	2.48	0.895	0.037	0	0	0	0	0	---	---	---	1968
1969	0	0	0	16.4	1.14	0.250	0.922	0.339	0.046	0.102	0.203	0.030	1.60	1969
1970	0.004	0.003	0.003	6.69	3.37	0.504	0.172	0.028	0.007	0.022	0.043	0.003	0.902	1970
1971	0	0	0.015	1.77	0.310	3.84	1.73	0.303	0.063	0.159	0.084	0.014	0.688	1971
1972	0.001	0.001	1.71	5.19	2.65	0.896	0.126	0.016	0.001	0.004	0.003	0	0.964	1972
1973	0	0	0.346	0.054	0.048	0.051	0.008	0.002	0	0.035	0.011	0.002	0.047	1973
1974	0	0	0	9.63	2.54	0.595	0.011	0.008	0.024	0.015	0.012	0.003	1.06	1974
1975	0.002	0.006	0.007	7.78	3.67	0.951	0.200	0.203	0.398	0.321	0.305	0.091	1.16	1975
1976	0.057	0.047	0.052	21.3	3.95	1.26	0.400	0.047	0.016	0.009	0.009	0.001	2.24	1976
1977	0.003	0.004	0.041	0.098	0.114	0.050	0.045	0.003	0.008	0.008	0.012	0.003	0.033	1977
1978	0.003	0.003	0.665	2.14	0.240	0.034	0.008	0.006	0	0.002	0.003	0.003	0.258	1978
1979	0.003	0.003	0.003	8.19	3.25	0.879	0.214	0.018	0.001	0.001	0.001	0.001	1.04	1979
1980	0.001	0.001	0.002	0.433	0.007	0.001	0	0.001	0	0.002	0.002	0.001	0.037	1980
1981	0.001	0.012	0.138	0.032	0.004	0.007	0.006	0.006	0.012	0.001	0.001	0.002	0.019	1981
1982	0	0	0.366	2.61	0.134	0.010	0.004	0	0	0.006	0.002	0	0.258	1982
1983	0	0	0.003	8.67	1.11	0.048	0.042	0.005	0.008	0.002	0.002	0.002	0.816	1983
MEAN	0.005	0.005	0.407	5.73	1.48	0.553	0.217	0.056	0.033	0.040	0.046	0.010	0.741	MEAN

LOCATION - LAT 49 55 30 N LONG 100 27 46 W DRAINAGE AREA, 1 850 km² REGULATED

OAK RIVER NEAR BRADWARDINE - STATION NO. 05MG010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---				
1967	19.0 AT 14:00 CST ON APR 15	10.2 ON APR 01	0 B ON MAR 01 *	---	1966
1968	---	16.4 ON APR 15	0 B ON MAR 01	---	1967
1969	---	12.8 B ON MAR 28	0 B ON MAR 01	---	1968
		87.5 B ON APR 12 *	0 B ON JAN 01	50 500	1969
1970	---				
1971	27.5 AT 16:00 CST ON JUN 15	16.5 B ON APR 12	0 B ON DEC 20	28 400	1970
1972	---	22.9 ON JUN 15	0 B ON JAN 01	21 700	1971
1973	---	15.7 ON APR 16	0 ON AUG 31	30 500	1972
1974	---	1.13 B ON MAR 13	0 B ON JAN 01	1 480	1973
		39.6 B ON APR 18	0 B ON JAN 11	33 500	1974
1975	---				
1976	46.7 AT 19:22 CST ON APR 10 *	34.5 A ON APR 29	0.001B ON JAN 01	36 500	1975
1977	0.657 AT 10:00 CST ON MAY 28	45.2 ON APR 10	0.001B ON NOV 30	70 700	1976
1978	10.3 AT 03:28 CST ON APR 07	0.348 ON MAY 27	0 ON AUG 17	1 030	1977
1979	31.6 AT 05:40 CST ON APR 22	7.70 ON APR 07	0 ON JUL 14	8 140	1978
		30.0 ON APR 21	0 ON AUG 25	32 900	1979
1980	---				
1981	0.425 AT 11:33 CST ON JUL 07	1.89 B ON APR 07	0 ON JUN 10	1 170	1980
1982	11.7 B AT 03:44 CST ON APR 13	0.286B ON MAR 21	0 B ON FEB 07	587	1981
1983	26.0 B AT 04:25 CST ON APR 10	10.4 B ON APR 13	0 B ON JAN 01	8 150	1982
		23.5 B ON APR 10	0 B ON JAN 01	25 700	1983
				23 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

OAK RIVER NEAR OUTLET OF RAVEN LAKE - STATION NO. 05MG012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	0.063	0.140	0.023	0.004	0	0	0	---	---	---	1969
1970	---	---	0	0.062	0.854	0.909	0.100	0.023	0.025	0.024	---	---	---	1970
1971	---	---	0	0.020	0.063	0.126	0.703	0.375	0.086	0.023	---	---	---	1971
1972	0	0	0	0.512	2.14	0.819	0.143	0.029	0	0	0	0	0.305	1972
1973	0	0	0.001	0.014	0.001	0	0	0	0	0	0	0	0.001	1973
1974	0	0	0	0.041	0.555	0.470	0.065	0.011	0	0	0	0	0.096	1974
1975	0	0	0	0.038	0.432	0.548	0.121	0.064	0.108	0.201	0.254	0.152	0.160	1975
1976	0.082	0.064	0.062	3.42	2.03	0.791	0.274	0.136	0.055	0.035	0.006	0	0.577	1976
MEAN	0.016	0.013	0.008	0.521	0.777	0.461	0.176	0.080	0.034	0.035	0.052	0.030	0.228	MEAN

LOCATION - LAT 50 19 35 N LONG 100 36 00 W DRAINAGE AREA, 443 km² REGULATED

REMARKS - DAILY DISCHARGES PRIOR TO 1973 HAVE NOT BEEN PUBLISHED

OAK RIVER NEAR OUTLET OF RAVEN LAKE - STATION NO. 05MG012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	0.280 ON APR 15	0B ON MAR 01 *	---	1969
1970	---	1.10 ON MAY 15	0B ON MAR 01	---	1970
1971	---	0.847 ON JUL 19	0B ON MAR 01	---	1971
1972	---	2.45 ON MAY 05	0B ON JAN 01	9 650	1972
1973	---	0.026 ON APR 14	0B ON JAN 01	44.3	1973
1974	---	0.838 ON MAY 23	0B ON JAN 01	3 020	1974
1975	---	0.742 ON MAY 26	0B ON JAN 01	5 050	1975
1976	---	7.42 ON APR 24 *	0B ON NOV 22	18 200	1976
				7 190	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

OAK RIVER NEAR RIVERS - STATION NO. 05MG004

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.207	0.029	0	0	0	0	0	0	---	---	0.030	1959
1960	---	---	0	3.39	0.334	0.094	0	0	0	0	---	---	0.469	1960
1961	---	---	0	0.117	0.009	0	0	0	0	0	---	---	0.015	1961
1962	---	---	0	1.01	0.029	0	0	0.007	0.002	0	---	---	0.128	1962
1963	---	---	2.918	0.475	0.023	0.885	0.106	0	0	0	---	---	0.299	1963
1964	---	---	0	1.56	0.287	0.006	0	0	0.004	0.001	---	---	0.229	1964
1965	---	---	0	3.39	0.072	0.036	0.112	0.003	0.008	0.007	---	---	0.445	1965
1966	---	---	0.835	0.855	0.376	0.006	0	0	0	0	---	---	0.259	1966
1967	---	---	0	4.84	1.21	0.088	0	0	0	0	---	---	0.756	1967
1968	---	---	0.833	0.466	0.009	0.001	0	0.001	0	0	---	---	0.164	1968
1969	0	0	0	7.40	0.321	0.043	0.298	0.029	0.005	0.006	0.004	0	0.994	1969
1970	0	0	0	2.61	2.06	0.392	0.263	0.024	0.019	0.064	0.058	0	0.674	1970
1971	0	0	0.002	0.570	0.163	2.41	1.20	0.288	0.089	0.095	0.026	0.003	0.597	1971
1972	0	0	0.210	3.28	2.12	0.795	0.100	0.007	0	0	0	0	0.808	1972
1973	0	0	0.093	0.011	0.042	0.004	0	0	0	0	0	0	0.015	1973
1974	0	0	0	4.76	1.27	0.443	0.031	0	0	0	0	0	0.802	1974
1975	0	0	0	2.28	1.31	0.462	0.101	0.204	0.181	0.171	0.205	0.053	0.584	1975
1976	0.028	0.023	0.029	9.09	2.82	0.840	0.246	0.041	0.008	0	0	0	1.61	1976
1977	0	0	0.013	0.025	0.052	0.015	0.007	0	0.001	0.001	0.001	0.001	0.014	1977
1978	0.001	0.001	0.054	0.763	0.044	0.001	0	0	0	0	0	0	0.106	1978
1979	0	0	0	4.83	1.45	0.774	0.281	0.054	0.002	0.001	0	0	0.913	1979
1980	0	0	0	0.144	0.007	0.003	0	0	0	0	0	0	0.019	1980
1981	0	0.001	0.079	0.022	0	0.004	0.001	0	0	0	0	0	0.013	1981
1982	0	0	0.036	0.904	0.044	0.001	0	0	0	0	0	0	0.121	1982
1984	0	0	0.002	0	0	0.015	0	0	0	0	0	0	0.002	1984
1985	0	0	0.104	0.833	0.005	0	0	0	0	0	0	0	0.116	1985
1986	0	0	0.640	1.25	2.19	0.216	0.074	0.001	0	0	0	0	0.792	1986
1987	0	0	0.016	4.07	0.600	0.153	0.016	0	0	0	---	---	0.597	1987
1988	---	---	0.001	0.156	0.010	0.003	0	0	0	0	---	---	0.021	1988
1989	---	---	0	0.007	0	0	0	0	0	0	---	---	0.001	1989
1990	---	---	0.156	1.59	0.108	0.031	0.009	0	0	0	---	---	0.233	1990
MEAN	0.002	0.001	0.136	2.02	0.546	0.249	0.092	0.021	0.010	0.011	0.017	0.003	0.381	MEAN

LOCATION - LAT 50 01 30 N DRAINAGE AREA, 1 150 km²
LONG 100 23 35 W REGULATED

OAK RIVER NEAR RIVERS - STATION NO. 05MG004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	---	2.04 ON MAR 28	0B ON MAR 01 *	831	1959
1960	---	13.3 ON APR 13	0B ON MAR 01	9 930	1960
1961	---	0.595 ON APR 10	0B ON MAR 01	327	1961
1962	---	5.92 ON APR 19	0B ON MAR 01	2 770	1962
1963	---	6.71 ON JUN 10	0B ON MAR 01	6 330	1963
1964	---	5.07 ON APR 15	0B ON MAR 01	4 840	1964
1965	---	12.7 ON APR 16	0B ON MAR 01	9 420	1965
1966	---	4.64 B ON APR 02	0B ON MAR 01	5 470	1966
1967	12.7 AT 19:00 CST ON APR 14	11.8 ON APR 14	0B ON MAR 01	16 000	1967
1968	---	7.93 B ON MAR 27	0B ON MAR 01	3 470	1968
1969	---	35.1 A ON APR 12 *	0B ON MAR 01	21 000	1969
1970	9.09 AT 06:51 CST ON APR 29	8.01 ON APR 30	0B ON MAR 01	14 300	1970
1971	7.59 AT 13:15 CST ON JUN 15	6.37 ON JUN 15	0B ON MAR 01	12 600	1971
1972	12.1 AT 15:20 CST ON APR 15	10.3 ON APR 16	0B ON MAR 01	17 100	1972
1973	---	0.275B ON MAR 13	0B ON MAR 01	320	1973
1974	---	19.3 ON APR 18	0B ON MAR 01	17 000	1974
1975	12.2 AT 01:00 CST ON APR 29	10.3 ON APR 29	0B ON MAR 01	12 400	1975
1976	---	23.4 B ON APR 10	0 ON SEP 17	34 200	1976
1977	0.515 AT 08:31 CST ON MAY 21	0.340 ON MAY 21	0B ON MAR 01	305	1977
1978	4.02 B AT 20:20 CST ON APR 06	3.09 B ON APR 06	0B ON MAR 01	2 450	1978
1979	41.0 AT 11:50 CST ON APR 21 *	33.7 ON APR 21	0B ON MAR 01	19 300	1979
1980	---	0.587B ON APR 07	0B ON MAR 01	400	1980
1981	0.554 AT 11:07 CST ON MAR 19	0.299 ON MAR 19	0B ON MAR 04	280	1981
1982	4.37 AT 15:24 CST ON APR 14	2.84 ON APR 14	0B ON MAR 01	2 560	1982
1984	0.299 AT 11:09 CST ON JUN 24	0.163 ON JUN 24	0B ON MAR 01	46.1	1984
1985	3.39 B AT 23:11 CST ON APR 05	2.43 B ON APR 06	0B ON MAR 01	2 450	1985
1986	14.4 AT 18:42 CST ON APR 01	11.7 ON APR 01	0B ON MAR 01	16 800	1986
1987	10.1 AT 17:09 CST ON APR 06	15.4 ON APR 06	0B ON MAR 01	12 600	1987
1988	1.53 AT 23:05 CST ON APR 05	0.990 ON APR 06	0B ON MAR 01	440	1988
1989	---	0.025B ON APR 03	0B ON MAR 01	17.5	1989
1990	6.45 AT 13:41 CST ON APR 05	3.65 ON APR 04	0B ON MAR 01	4 940	1990
				8 080	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

OCHRE RIVER AT OCHRE RIVER - STATION NO. 05LJ005

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	---	---	---	---	1912
1913	2.18	0.906	0.057	9.51	3.00	2.34	3.08	0.477	0.205	4.40	3.82	2.69	---	1913
1914	0.057	0	0.028	4.25	6.49	0.498	0.397	0.049	0.097	0.387	0.390	0.142	2.36	1914
										0.248	0.163	0.030	1.50	
1915	0	0	0.057	1.96	1.27	1.26	1.11	0.239	0.622	1.03	0.635	0.113	0.939	1915
1916	---	---	---	3.66	2.89	9.97	2.06	0.308	0.175	0.600	0.650	---	---	1916
1917	---	---	---	3.14	4.73	4.07	2.17	0.313	0.257	0.309	0.483	---	---	1917
1918	---	---	1.56	3.10	2.35	1.54	0.718	0.533	0.183	0.388	0.679	---	1.42	1918
1919	---	---	---	---	1.92	0.343	0.626	0.087	0.222	0.397	---	---	---	1919
1920	---	---	---	---	8.32	1.41	0.382	0.097	0.145	0.278	---	---	---	1920
1921	---	---	---	---	6.77	1.61	---	---	---	---	---	---	---	1921
1922	---	---	---	10.2	6.44	1.62	1.25	1.05	0.425	---	---	---	---	1922
1923	---	---	---	---	10.1	7.35	1.73	0.507	0.173	0.427	---	---	---	1923
1924	---	---	---	---	5.83	3.33	1.61	0.641	0.215	1.82	---	---	---	1924
1925	---	---	---	7.81	2.90	16.6	3.57	2.33	1.71	2.38	---	---	---	1925
1926	---	---	---	---	1.70	1.21	0.467	0.217	0.942	2.75	---	---	---	1926
1927	---	---	---	---	13.0	4.32	3.79	2.06	0.796	0.960	---	---	---	1927
1928	---	---	---	---	2.59	8.34	2.02	0.601	0.230	0.333	---	---	---	1928
1929	---	---	---	---	2.07	1.77	0.436	0.098	0.094	0.174	---	---	---	1929
1930	---	---	---	---	3.57	0.999	0.475	0.076	0.076	---	---	---	---	1930
1948	---	---	---	---	7.26	0.960	2.83	1.46	0.388	0.294	---	---	---	1948
1949	---	---	---	---	2.17	2.42	3.92	0.707	0.249	0.717	---	---	---	1949
1950	---	---	---	2.40	14.8	4.88	4.10	0.800	0.597	0.732	---	---	---	1950
1951	---	---	---	6.82	4.94	1.67	0.656	0.554	0.928	1.60	---	---	---	1951
1952	---	---	0.031	6.82	1.76	0.752	0.337	0.200	1.77	0.720	0.361	---	1.53	1952
1953	---	---	---	3.83	11.7	14.4	4.07	1.57	1.42	1.22	0.869	---	---	1953
1954	---	---	---	2.72	5.95	8.59	3.51	0.714	4.31	2.95	1.10	---	---	1954
1955	---	---	---	8.76	7.90	10.4	1.62	0.149	0.198	0.275	---	---	---	1955
1956	---	---	0.375	2.25	7.93	8.37	5.92	0.562	0.477	0.621	---	---	3.31	1956
1957	---	---	0.471	10.2	4.37	3.34	0.723	0.449	0.632	0.382	---	---	2.55	1957
1958	---	---	0.352	3.36	1.36	0.591	1.27	0.138	0.688	0.325	---	---	1.00	1958
1959	---	---	0.423	3.54	5.22	1.90	0.850	0.107	0.448	1.40	---	---	1.73	1959
1960	---	---	0.159	8.23	9.82	1.74	0.318	0.273	0.143	0.379	---	---	2.62	1960
1961	---	---	0.024	1.12	1.54	0.041	0.021	0	0.008	0.386	---	---	0.393	1961
1962	---	---	0.032	1.17	1.70	1.40	0.205	0.101	0.325	0.362	0.311	---	0.669	1962
1963	---	---	0.828	6.85	4.69	4.90	1.18	0.137	0.710	0.249	---	---	2.19	1963
1964	---	---	0	4.61	3.14	0.368	0.095	0.033	0.014	0.187	---	---	1.05	1964
1965	---	---	0	2.67	7.31	3.96	1.17	0.778	5.18	1.39	---	---	2.79	1965
1966	---	---	1.82	4.90	9.77	2.01	1.28	1.07	0.353	0.390	---	---	2.82	1966
1967	---	---	0.235	3.48	10.3	1.15	0.232	0.173	0.020	0.350	---	---	1.99	1967
1968	---	---	0.401	2.39	2.11	1.10	2.31	2.26	1.13	0.259	---	---	1.56	1968
1969	---	---	0.261	5.04	2.21	9.60	5.19	0.413	0.512	0.754	---	---	2.97	1969
1970	---	---	0.224	2.87	18.6	2.56	1.65	0.211	0.641	0.896	---	---	3.47	1970
1971	---	---	0.487	7.32	1.95	12.0	2.14	0.631	0.254	1.59	---	---	3.21	1971
1972	---	---	0.520	7.34	4.20	0.631	0.225	0.207	0.136	0.198	---	---	1.68	1972
1973	---	---	0.513	0.822	0.817	2.04	0.355	0.875	1.48	1.59	---	---	1.06	1973
1974	---	---	0.014	10.2	15.1	2.30	0.596	0.284	0.616	1.35	---	---	3.80	1974
1975	---	---	0.212	2.98	4.75	4.19	0.994	4.32	19.9	4.19	---	---	5.15	1975
1976	---	---	0.616	13.0	2.42	6.61	0.885	0.455	0.105	0.300	---	---	3.23	1976
1977	---	---	0.285	1.13	1.26	0.599	1.75	0.742	3.44	1.86	---	---	1.63	1977
1978	---	---	0.488	8.62	2.33	1.24	0.644	0.189	0.669	0.917	---	---	1.53	1978
1979	---	---	0.400	5.97	14.2	2.88	0.503	0.228	0.293	0.398	---	---	3.11	1979
1980	---	---	0.227	3.08	0.555	0.197	0.306	1.14	1.03	1.04	---	---	0.940	1980
1981	---	---	0.405	2.33	2.67	2.62	0.304	0.379	0.354	0.676	---	---	1.21	1981
1982	---	---	0.038	5.51	2.10	0.705	0.301	0.210	0.177	1.51	---	---	1.32	1982
1983	---	---	0.116	6.49	4.51	2.21	1.57	0.175	0.310	0.192	---	---	1.93	1983
1984	---	---	0.543	1.70	4.19	2.61	0.376	0.030	0.146	0.092	---	---	1.31	1984
1985	---	---	0.719	6.38	1.39	2.19	0.620	1.88	1.30	2.55	---	---	2.14	1985
1986	---	---	1.82	7.82	14.8	1.08	0.815	0.416	0.401	0.792	---	---	3.50	1986
1987	---	---	0.900	6.09	0.752	0.271	0.249	0.136	0.205	0.547	---	---	1.13	1987
1988	---	---	0.162	3.17	5.32	0.401	0.131	0.066	0.101	0.181	---	---	1.19	1988
1989	---	---	0.032	0.886	0.679	2.67	0.620	0.249	0.344	0.344	---	---	0.721	1989
1990	---	---	0.397	7.00	8.81	3.21	0.927	0.136	0.093	0.186	---	---	2.59	1990
MEAN	0.746	0.302	0.398	4.93	5.35	3.40	1.43	0.586	0.984	0.940	0.860	0.744	2.03	MEAN

LOCATION - LAT 51 03 04 N DRAINAGE AREA, 342 km²
LONG 099 47 15 W NATURAL FLOW

OCHRE RIVER AT OCHRE RIVER - STATION NO. 05LJ005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	25.6 ON APR 14	0.057B ON MAR 01	50 000	1913
1914	---	30.9 ON MAY 06	0.028B ON MAR 01	31 900	1914
1915	---	5.01 ON APR 12	0.057B ON MAR 01	19 900	1915
1916	---	44.7 ON JUN 24	---	---	1916
1917	---	15.2 ON JUN 26	---	---	1917
1918	---	15.4 ON MAY 25	0.130 ON AUG 31	30 100	1918
1919	---	---	---	---	1919
1920	---	---	---	---	1920
1921	---	---	---	---	1921
1922	---	22.4 ON MAY 18	---	---	1922
1923	---	56.1 ON MAY 02	---	---	1923
1924	---	14.3 ON APR 28	---	---	1924
1925	---	51.3 ON JUN 24	---	---	1925
1926	---	---	---	---	1926
1927	---	54.4 ON MAY 04	---	---	1927
1928	---	44.5 ON JUN 21	---	---	1928
1929	---	---	0.071 ON AUG 27	---	1929
1930	---	17.3 ON MAY 13	---	---	1930
1948	---	44.2 ON APR 25	---	---	1948
1949	---	28.0 ON JUL 22	---	---	1949
1950	---	68.0 ON MAY 14	---	---	1950
1951	---	37.9 ON APR 29	0 B ON APR 01 *	---	1951
1952	---	17.3 ON APR 18	0.028B ON MAR 01	32 400	1952
1953	---	91.7 ON JUN 04	---	---	1953
1954	---	37.4 ON JUN 08	---	---	1954
1955	---	67.4 ON JUN 18	0 ON SEP 03	---	1955
1956	---	40.2 ON JUN 20	0.198 ON AUG 26	70 000	1956
1957	---	57.8 ON APR 25	0.170 ON AUG 21	53 900	1957
1958	---	6.86B ON APR 01	0 ON AUG 12	21 200	1958
1959	---	13.2 ON MAY 04	0.028 ON AUG 06	36 700	1959
1960	---	32.8 ON MAY 27	0.040 ON JUL 28	55 500	1960
1961	---	4.64B ON APR 21	0 B ON MAR 01	8 310	1961
1962	---	5.64 ON MAY 31	0 B ON MAR 01	14 200	1962
1963	---	20.7 ON APR 08	0 B ON MAR 01	46 300	1963
1964	---	17.5 ON APR 26	0 B ON MAR 01	22 200	1964
1965	---	24.1 ON JUN 03	0 B ON MAR 01	59 100	1965
1966	---	34.0 ON MAY 05	0.003 ON SEP 17	39 800	1966
1967	---	18.0 ON MAY 07	0.011 ON SEP 07	42 100	1967
1968	---	12.0 ON JUL 02	0.085B ON MAR 01	13 100	1968
1969	---	74.2 ON JUN 27	0.108 ON SEP 19	62 900	1969
1970	---	63.1 ON MAY 08	0.085 ON AUG 24	73 500	1970
1971	---	85.2 ON JUN 10	0.119 ON SEP 25	68 000	1971
1972	---	20.9 ON APR 26	0.082 ON SEP 11	35 500	1972
1973	---	11.3 ON JUN 21	0.031 ON JUL 24	22 400	1973
1974	---	47.0 ON APR 27	0.014B ON MAR 01	80 500	1974
1975	328 AT 15:13 CST ON SEP 19 *	211 ON SEP 19 *	0.113 ON JUL 30	109 000	1975
1976	---	68.0 ON JUN 14	0.040 ON SEP 12	68 400	1976
1977	---	40.5 ON JUL 12	0.071 ON JUN 11	34 500	1977
1978	---	15.5 A ON APR 27	0.102 ON AUG 13	32 300	1978
1979	48.5 AT 13:35 CST ON MAY 17	45.3 ON MAY 17	0.138 ON AUG 31	65 800	1979
1980	8.10B AT 09:22 CST ON APR 19	7.17 ON APR 21	0.087 ON JUN 26	19 900	1980
1981	12.5 AT 14:40 CST ON JUN 18	10.0 ON JUN 18	0.066 ON JUL 14	25 600	1981
1982	---	16.6 B ON APR 15	0 B ON MAR 01	27 900	1982
1983	32.3 B AT 03:00 CST ON APR 25	27.6 ON APR 26	0.052A ON OCT 19	40 900	1983
1984	16.0 AT 20:37 CST ON JUN 23	13.3 ON JUN 24	0.007 ON SEP 04	27 700	1984
1985	18.9 AT 09:25 CST ON APR 21	17.0 ON APR 21	0.004B ON MAR 14	45 300	1985
1986	123 AT 08:16 CST ON MAY 06	108 ON MAY 06	0.114 ON SEP 09	74 100	1986
1987	16.4 AT 09:01 CST ON APR 10	14.8 ON APR 10	0.050 ON SEP 05	23 900	1987
1988	27.7 AT 04:15 CST ON MAY 03	24.1 ON MAY 03	0 B ON MAR 01	25 200	1988
1989	26.4 AT 12:00 CST ON JUN 13	20.2 ON JUN 13	0.001B ON MAR 16	15 300	1989
1990	40.6 AT 04:10 CST ON MAY 17	36.4 ON MAY 17	0.061 ON SEP 12	54 700	1990
MEAN				43 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ODEI RIVER NEAR THOMPSON - STATION NO. 05TG003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	10.0	6.90	4.82	8.11	65.3	101	51.7	35.5	42.9	48.1	25.4	14.3	34.6	1979
1980	6.82	3.52	2.80	27.2	49.2	34.9	37.6	65.6	102	79.8	31.7	22.5	38.7	1980
1981	17.6	12.2	8.53	6.32	103	49.9	20.4	24.8	13.1	24.9	17.2	4.82	26.1	1981
1982	1.75	1.63	1.58	12.8	108	77.8	53.1	63.7	56.3	60.5	33.1	24.5	48.3	1982
1983	19.0	13.9	8.34	7.60	118	97.5	54.9	45.9	68.6	60.0	35.4	18.1	45.8	1983
1984	9.90	5.31	4.16	57.9	87.1	56.5	23.9	15.2	18.7	21.6	11.9	5.94	26.5	1984
1985	3.13	2.01	1.68	84.9	149	108	82.3	43.6	26.2	19.5	8.34	1.84	44.4	1985
1986	0.897	0.551	0.462	3.49	202	82.0	116	75.7	50.9	39.8	26.4	15.8	51.7	1986
1987	10.1	6.23	4.96	49.1	86.9	55.5	45.3	21.6	12.1	12.0	18.0	7.00	30.8	1987
1988	3.27	1.93	1.43	1.37	139	64.7	---	---	22.3	20.3	12.2	4.91	---	1988
1989	2.82	1.89	1.31	1.15	108	67.6	34.5	20.2	18.0	18.0	10.6	4.07	24.1	1989
1990	1.17	1.05	0.943	5.38	63.1	52.8	30.5	14.2	11.0	12.0	8.68	2.41	17.0	1990
MEAN	7.21	4.76	3.42	22.1	113	70.7	50.7	38.7	38.5	36.4	19.9	10.5	35.3	MEAN

LOCATION - LAT 55 59 45 N LONG 097 21 23 W DRAINAGE AREA, 6 130 km^2 NATURAL FLOW

CDEI RIVER NEAR THOMPSON - STATION NO. 05TG003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	135 A AT 17:55 CST ON JUN 04	134 A ON JUN 04	3.50 E ON APR 13	1 090 000	1979
1980	143 AT 22:45 CST ON AUG 28	143 ON AUG 29	2.65 B ON MAR 25	1 220 000	1980
1981	---	225 E ON MAY 18	2.30 B ON DEC 31	822 000	1981
1982	---	352 E ON MAY 03 *	1.52 E ON APR 12	1 520 000	1982
1983	201 AT 12:00 CST ON MAY 31	201 ON MAY 31	4.54 B ON APR 15	1 440 000	1983
1984	170 AT 21:15 CST ON APR 24	167 ON APR 24	3.53 B ON APR 02	839 000	1984
1985	---	350 E ON APR 27	1.16 B ON DEC 31	1 400 000	1985
1986	311 AT 18:20 CST ON MAY 18 *	310 ON MAY 18	0.460B ON MAR 10 *	1 630 000	1986
1987	206 AT 22:00 CST ON APR 30	204 ON APR 30	4.62 B ON DEC 31	973 000	1987
1988	272 AT 18:06 CST ON MAY 10	269 ON MAY 10	1.35 B ON MAR 31	---	1988
1989	---	160 E ON MAY 13	1.10 B ON APR 18	762 000	1989
1990	96.9 AT 14:21 CST ON MAY 18	92.8 ON MAY 18	0.858B ON APR 10	537 000	1990
	A - MANUAL GAUGE (SEE REFERENCE INDEX)	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD	1 110 000	MEAN

CHANDS CREEK NEAR BROOKSIDE CEMETERY - STATION NO. 05MJ008

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0.004	1.25	0.256	0.025	0.010	0	0	0	---	---	0.190	1978
1983	---	---	0.129	1.08	0	0.702	0.077	0.002	0	0	---	---	0.244	1983
1984	---	---	0.024	0.058	0.005	0.072	0.005	0	0.004	0.011	---	---	0.022	1984
1985	---	---	0.381	0.432	0.015	0.008	0	0.372	0.043	0.002	---	---	0.157	1985
1986	---	---	0.535	0.910	0.412	0.001	0.010	0	0	0	---	---	0.233	1986
1987	---	---	0.249	1.51	0	0	0	0.269	0.004	0.002	---	---	0.251	1987
1988	---	---	0.001	0.081	0	0	0	0	0	0	---	---	0.010	1988
MEAN	---	---	0.189	0.760	0.098	0.115	0.015	0.092	0.007	0.002	---	---	0.158	MEAN

LOCATION - LAT 49 55 00 N LONG 097 12 59 W DRAINAGE AREA, 65.8 km^2 NATURAL FLOW

CHANDS CREEK NEAR BROOKSIDE CEMETERY - STATION NO. 05MJ008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	---	4.67 B ON APR 08	0 ON MAY 03 *	4 020	1978
1983	10.1 AT 12:00 CST ON JUN 22 *	7.41 ON JUN 22 *	0B ON MAR 01	5 170	1983
1984	1.19 AT 19:56 CST ON JUN 21	0.362B ON APR 02	0B ON MAR 01	469	1984
1985	---	2.51 B ON MAR 29	0B ON MAR 01	3 320	1985
1986	6.01 AT 04:04 CST ON MAR 31	5.75 ON MAR 31	0B ON MAR 01	4 930	1986
1987	---	6.19 ON APR 06	0B ON MAR 01	5 320	1987
1988	---	0.760A ON APR 04	0B ON MAR 01	213	1988
	A - MANUAL GAUGE (SEE REFERENCE INDEX)	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD	3 350	MEAN

CHANDS CREEK NEAR METRO ROUTE 90 - STATION NO. 05MJ007

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0.027	1.37	0.340	0.023	0.004	0	0.011	0	---	---	0.219	1978
1983	---	---	0.221	1.13	0.001	0.716	0.025	0.008	0.001	0.005	---	---	0.260	1983
1984	---	---	0.043	0.070	0.006	0.210	0.007	0.002	0.009	0.025	---	---	0.046	1984
1985	---	---	0.591	0.433	0.023	0.034	0.015	0.478	0.040	0.027	---	---	0.206	1985
1986	---	---	0.594	0.864	0.432	0.011	0.049	0.023	0.019	0.004	---	---	0.249	1986
1987	---	---	0.490	1.46	0.003	0.003	0.012	0.270	0.001	0.024	---	---	0.281	1987
1988	---	---	0.014	0.197	0.011	0.030	0.017	0.003	0.010	0.004	---	---	0.035	1988
MEAN	---	---	0.283	0.789	0.117	0.147	0.018	0.112	0.013	0.013	---	---	0.185	MEAN

LOCATION - LAT 49 54 43 N LONG 097 12 20 W DRAINAGE AREA, 72.3 km^2 NATURAL FLOW

CHANDS CREEK NEAR METRO ROUTE 90 - STATION NO. 05MJ007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	5.89 AT 00:59 CST ON MAY 26	4.70 ON MAY 26	0B ON MAR 01 *	4 630	1978
1983	9.85 AT 12:51 CST ON JUN 22 *	6.52 ON JUN 22 *	0B ON MAR 01	5 500	1983
1984	3.16 AT 22:35 CST ON JUN 21	1.38 ON JUN 22	0B ON MAR 01	973	1984
1985	3.75 AT 10:56 CST ON AUG 17	3.01B ON MAR 29	0B ON MAR 01	4 350	1985
1986	5.63B AT 06:59 CST ON MAR 31	5.50B ON MAR 31	0B ON MAR 01	5 270	1986
1987	---	6.22 ON APR 07	0B ON MAR 01	5 940	1987
1988	1.88 AT 04:10 CST ON JUN 18	1.28A ON APR 04	0 ON MAY 31	743	1988
	A - MANUAL GAUGE (SEE REFERENCE INDEX)	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD	3 920	MEAN

OMINAWIN CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB011

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	---	---	1 160	1 120	1 050	---	---	---	---	1971
1972	764	765	826	925	1 160	1 250	1 180	1 110	1 020	950	860	707	960	1972
1973	632	625	685	768	---	---	---	---	---	---	---	---	---	1973
MEAN	698	695	756	847	1 160	1 250	1 170	1 120	1 040	950	860	707	960	MEAN

LOCATION - LAT 54 25 30 N
LONG 098 03 00 W NATURAL FLOW

OMINAWIN CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB011

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	---	---	---	1971
1972	1 300 AT 05:13 CST ON JUN 13 *	1 280 ON MAY 21 *	648B ON DEC 31 *	30 300 000	1972
1973	---	---	---	---	1973
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		30 300 000	MEAN

OVERFLOWING RIVER AT OVERFLOWING RIVER - STATION NO. 05LD001

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	---	52.9	72.1	36.5	24.5	38.4	---	---	---	---	1954
1955	---	---	---	---	71.0	22.2	12.0	8.04	2.89	2.77	---	---	---	1955
1956	---	---	0.054	11.1	74.0	57.1	30.9	17.9	9.11	6.86	---	---	25.9	1956
1957	---	---	0	13.7	45.2	16.7	4.75	0.813	1.70	1.19	---	---	10.5	1957
1958	---	---	0.005	21.3	13.5	4.40	6.92	1.71	3.04	9.97	---	---	7.58	1958
1959	---	---	0.576	14.7	19.2	10.7	16.9	9.21	24.5	17.9	---	---	14.2	1959
1960	---	---	0.007	34.6	52.0	30.9	11.6	3.78	1.33	0.733	---	---	16.8	1960
1961	---	---	0.062	14.5	11.9	3.20	0.107	0.020	0.015	0.014	---	---	3.70	1961
1962	---	---	0	3.96	13.1	5.66	0.673	0.125	0.719	0.922	---	---	3.14	1962
1963	---	---	0	7.04	4.50	4.53	6.51	1.53	2.67	1.85	---	---	3.56	1963
1964	---	---	0.094	7.99	27.4	4.21	8.01	9.40	17.6	13.2	---	---	11.0	1964
1965	---	---	0.076	17.4	39.3	55.6	25.9	9.52	13.1	17.6	---	---	22.2	1965
1966	---	---	0.318	14.5	16.3	23.2	34.5	17.0	8.22	6.87	---	---	15.1	1966
1967	---	---	0.577	0.881	52.5	27.3	5.25	1.96	1.08	3.42	---	---	11.6	1967
1968	---	---	0.697	8.29	10.1	36.2	43.5	14.2	10.5	7.79	---	---	16.4	1968
1969	---	---	0.323	25.3	17.5	6.00	0.651	0.287	0.273	11.1	---	---	7.65	1969
1970	---	---	0.128	4.86	35.7	22.6	66.9	20.1	6.01	11.3	---	---	21.1	1970
1971	---	---	0.232	30.7	24.5	6.60	2.00	2.12	0.517	4.41	---	---	8.85	1971
1972	---	---	0.093	13.0	47.8	14.0	4.22	1.50	0.544	0.917	---	---	10.3	1972
1973	---	---	0	6.60	18.5	37.3	21.1	4.56	3.98	5.82	---	---	12.2	1973
1974	---	---	0.500	21.4	70.3	42.6	7.40	2.63	5.01	10.1	---	---	19.9	1974
1975	---	---	0.713	9.75	41.8	43.4	12.3	7.46	9.15	12.3	---	---	17.1	1975
1976	---	---	0.554	8.65	5.53	21.3	25.2	9.18	3.25	1.35	---	---	9.35	1976
1977	---	---	0	4.94	7.41	3.74	3.79	15.0	19.4	13.8	---	---	8.50	1977
1978	---	---	0.716	15.3	30.9	13.7	6.40	8.35	10.7	15.0	---	---	13.6	1978
1979	---	---	0	17.7	62.3	51.9	9.15	2.15	1.64	2.31	---	---	18.3	1979
1980	---	---	0.005	4.85	2.50	0.410	0.770	1.14	1.36	2.91	---	---	1.74	1980
1981	---	---	0.349	6.83	9.12	2.79	2.43	2.03	0.679	15.6	---	---	4.99	1981
1982	---	---	0.024	7.85	11.6	18.8	12.6	4.46	3.08	8.08	---	---	8.30	1982
1983	---	---	0.100	16.1	43.7	41.7	38.6	11.0	6.97	7.22	---	---	20.6	1983
1984	---	---	0.241	30.5	53.4	43.2	7.48	0.731	0.491	3.74	---	---	17.4	1984
1985	---	---	0.070	19.9	22.8	12.5	7.37	10.5	7.50	7.10	---	---	10.9	1985
1986	---	---	0.175	9.94	24.6	11.4	5.60	3.98	1.14	4.25	---	---	7.63	1986
1987	---	---	0.703	20.4	14.8	11.5	31.1	14.8	10.8	14.2	---	---	14.8	1987
1988	---	---	0.161	15.9	37.5	7.95	1.27	0.430	0.545	1.24	---	---	8.12	1988
1989	---	---	0	1.36	2.52	4.28	5.76	2.62	13.5	6.80	---	---	4.55	1989
1990	---	---	0.129	7.58	32.6	15.9	18.7	3.93	1.44	1.09	---	---	10.2	1990
MEAN	---	---	0.220	13.4	30.5	21.8	14.5	6.73	6.56	6.98	---	---	11.9	MEAN

LOCATION - LAT 53 09 15 N DRAINAGE AREA, 3 350 km^2
LONG 101 06 30 W NATURAL FLOW

OVERFLOWING RIVER AT OVERFLOWING RIVER - STATION NO. 05LD001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	---	---	---	1954
1955	---	---	---	---	1955
1956	---	---	---	---	1956
1957	---	88.9 ON MAY 15	0.028B ON APR 01	548 000	1957
1958	---	55.2 ON APR 29	0 B ON MAR 01 *	222 000	1958
1959	---	36.0 ON APR 07	0 B ON MAR 01	160 000	1959
1960	---	36.0 ON JUL 01	0 B ON MAR 01	300 000	1960
1961	---	119 B ON APR 22 *	0 B ON MAR 01	355 000	1961
1962	---	27.2 ON APR 26	0.014 ON SEP 03	78 400	1962
1963	---	26.3 ON APR 29	0 B ON MAR 01	66 500	1963
1964	---	19.2 B ON APR 18	0 B ON MAR 01	75 500	1964
1965	---	56.6 ON MAY 12	0.085B ON MAR 01	233 000	1965
1966	---	90.3 ON JUN 10	0.976B ON MAR 01	470 000	1966
1967	---	47.0 ON JUL 21	0.286B ON MAR 01	320 000	1967
1968	---	78.2 ON MAY 22	0.402B ON APR 16	246 000	1968
1969	---	55.8 ON JUN 01	0.025B ON MAR 21	148 000	1969
1970	---	53.5 B ON APR 14	0.037E ON SEP 15	162 000	1970
1971	---	90.9 ON JUL 16	0.105B ON APR 07	446 000	1971
1972	---	78.7 B ON APR 19	0.096A ON SEP 16	187 000	1972
1973	47.0 AT 02:31 CST ON JUN 22	56.9 E ON APR 29	0.071B ON MAR 01	217 000	1973
1974	85.8 AT 00:11 CST ON APR 30 *	47.0 ON JUN 22	0 B ON MAR 01	258 000	1974
1975	55.2 AT 10:22 CST ON JUN 10	85.5 ON APR 29	0.396B ON MAR 29	422 000	1975
1976	---	54.7 ON JUN 11	0.453B ON APR 06	361 000	1976
1977	24.7 AT 12:43 CST ON SEP 18	39.9 ON JUN 29	0.544B ON MAR 01	198 000	1977
1978	69.1 AT 04:16 CST ON MAY [illegible]	24.6 ON SEP 18	0 B ON MAR 01	180 000	1978
1979	73.8 AT 19:00 CST ON APR 29	68.5 ON MAY 01	0.691B ON MAR 01	289 000	1979
1980	---	73.6 R ON APR 29	0 B ON MAR 01	388 000	1980
1981	28.7 AT 23:59 CST ON OCT 31	8.91B ON APR 17	0 B ON MAR 01	36 800	1981
1982	27.1 AT 20:12 CST ON JUN 01	26.1 ON OCT 31	0 B ON MAR 01	106 000	1982
1983	---	26.8 ON JUN 02	0.017B ON MAR 29	176 000	1983
1984	63.7 AT 16:50 CST ON MAY 24	58.5 B ON APR 24	0.018B ON MAR 10	437 000	1984
1985	29.3 AT 17:34 CST ON MAY 15	63.0 ON MAY 25	0.012B ON MAR 21	368 000	1985
1986	30.5 AT 19:22 CST ON MAY 19	28.7 ON MAY 15	0.030B ON MAR 12	232 000	1986
1987	41.2 AT 12:27 CST ON JUL 25	30.2 ON MAY 20	0.004B ON MAR 08	162 000	1987
1988	54.2 AT 08:21 CST ON MAY 04	43.0 ON JUL 25	0.304B ON MAR 08	213 000	1988
1989	18.0 AT 15:44 CST ON SEP 13	53.8 ON MAY 04	0.050B ON MAR 01	172 000	1989
1990	42.8 AT 14:05 CST ON MAY 22	17.8 ON SEP 13	0 B ON MAR 01	97 100	1990
		42.5 ON MAY 22	0.102B ON MAR 01	216 000	MEAN
				253 000	

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1989

PACKHORSE CREEK NEAR MCCREARY - STATION NO. 05LJ034

MONTHLY AND ANNUAL MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	0.078	0.028	0.023	0.012	---	---	---	---	1960
1961	---	---	---	---	0.254	0.017	0.041	0.017	0.084	---	---	---	---	1961
1962	---	---	---	---	---	0.023	0.005	0.011	0.009	---	---	---	---	1962
1963	---	---	---	---	---	0.308	0.028	0.016	0.016	---	---	---	---	1963
1964	---	---	---	---	0.103	0.031	0.011	0.009	0.011	---	---	---	---	1964
1965	---	---	---	0.096	0.295	0.103	0.043	0.030	0.266	0.033	---	---	0.123	1965
1966	---	---	---	0.158	0.247	0.085	0.032	0.065	0.017	0.031	---	---	0.094	1966
1967	---	---	---	0.240	0.380	0.070	0.026	0.021	0.016	0.037	---	---	0.113	1967
1968	---	---	---	0.116	0.115	0.102	0.119	0.128	0.046	0.042	---	---	0.096	1968
1969	---	---	---	0.294	0.158	0.278	0.282	0.033	0.028	0.016	---	---	0.155	1969
1970	---	---	---	0.067	0.633	0.113	0.061	0.034	0.048	0.062	---	---	0.146	1970
1971	---	---	---	---	0.082	0.358	0.068	0.022	0.036	---	---	---	---	1971
1972	---	---	---	0.296	0.178	0.046	0.018	0.015	0.014	---	---	---	---	1972
1973	---	---	---	0.049	0.081	0.120	0.032	0.039	0.078	0.079	---	---	0.068	1973
1974	---	---	---	0.295	0.353	0.103	0.026	0.021	0.018	0.011	---	---	0.118	1974
1975	---	---	---	---	0.208	0.135	0.025	0.099	---	---	---	---	---	1975
MEAN	---	---	---	0.179	0.237	0.123	0.053	0.038	0.047	0.039	---	---	0.114	MEAN

LOCATION - LAT 50 43 00 N, LONG 099 35 00 W
DRAINAGE AREA, 9.14 km^2
NATURAL FLOW
DATA CONTRIBUTED BY - MANITOBA WATER RESOURCES BRANCH

PACKHORSE CREEK NEAR MCCREARY - STATION NO. 05LJ034

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	1.42 AT 14:00 CST ON MAY 26	1.30 ON MAY 26	0 ON SEP 18 *	---	1960
1961	---	---	0 ON JUN 07	---	1961
1962	5.95 AT 22:30 CST ON MAY 29	2.45 ON MAY 30	0 ON JUN 11	---	1962
1963	3.48 AT 06:20 CST ON JUN 10	1.39 ON JUN 10	---	---	1963
1964	---	---	---	---	1964
1965	1.92 AT 17:40 CST ON SEP 04	1.47 ON SEP 17	0 B ON APR 01	2 280	1965
1966	2.47 AT 03:30 CST ON AUG 07	1.30 ON AUG 07	0.011 ON SEP 22	1 740	1966
1967	1.19 AT 18:30 CST ON MAY 14	0.937 ON MAY 07	0.003B ON APR 01	2 090	1967
1968	1.53 AT 14:30 CST ON JUL 07	0.864E ON MAY 08	0.020 ON JUL 26	1 770	1968
1969	4.87 AT 03:30 CST ON JUN 27	2.77 ON JUN 27	0.011E ON OCT 24	2 860	1969
1970	3.94 AT 17:15 CST ON MAY 07	2.18 ON MAY 07	0.018 ON AUG 25	2 700	1970
1971	---	3.48 ON JUN 06	---	---	1971
1972	---	1.81 B ON APR 26	---	---	1972
1973	1.26 AT 13:00 CST ON JUN 20	0.821 ON JUN 20	0.001 ON JUL 23	1 260	1973
1974	2.57 AT 16:00 CST ON MAY 11	1.91 ON MAY 11	0.001 ON OCT 06	2 180	1974
1975	13.6 AT 18:00 CST ON SEP 18 *	8.78 ON SEP 19 *	---	---	1975
				2 110	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PANSY DRAIN NEAR SARTO - STATION NO. 05OE014

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0	0.113	0.018	0.001	---	---	---	---	---	---	0.033	1978
1979	---	---	0	0.254	0.232	0.133	---	---	---	---	---	---	0.154	1979
1980	---	---	0	0.031	0	0	---	---	---	---	---	---	0.008	1980
1981	---	---	0.001	0	0.003	0	---	---	---	---	---	---	0.001	1981
1982	---	---	0.003	0.141	0.067	0.117	---	---	---	---	---	---	0.081	1982
1983	---	---	0.337	0.940	0.053	0.014	---	---	---	---	---	---	0.333	1983
1984	---	---	0.074	0.010	0.003	0.029	---	---	---	---	---	---	0.029	1984
1985	---	---	0.010	0.006	0.008	0.001	---	---	---	---	---	---	0.007	1985
1986	---	---	0.097	0.435	0.795	0.003	---	---	---	---	---	---	0.334	1986
1987	---	---	0.046	0.391	0.016	0.002	---	---	---	---	---	---	0.112	1987
1988	---	---	0	0.015	0.001	0	---	---	---	---	---	---	0.004	1988
* 1989	---	---	0	0.029	0.003	0.001	---	---	---	---	---	---	0.008	1989
1990	---	---	0.007	0.018	0.006	0.069	---	---	---	---	---	---	0.025	1990
MEAN	---	---	0.044	0.183	0.093	0.028	---	---	---	---	---	---	0.087	MEAN

LOCATION - LAT 49 23 05 N DRAINAGE AREA, 46.6 km^2
LONG 096 43 53 W NATURAL FLOW

PANSY DRAIN NEAR SARTO - STATION NO. 05OE014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	---	0.521 ON APR 09	0B ON MAR 01 *	343	1978
1979	0.816 AT 14:34 CST ON APR 25	0.807 ON APR 25	0B ON MAR 01	1 620	1979
1980	0.230 AT 11:15 CST ON APR 07	0.133B ON APR 07	0B ON MAR 01	80.4	1980
1981	0.016 AT 19:05 CST ON MAY 29	0.015 ON MAY 30	0B ON MAR 01	11.0	1981
1982	0.566 AT 18:20 CST ON JUN 10	0.554 ON JUN 10	0B ON MAR 01	856	1982
1983	2.52 B AT 11:26 CST ON APR 06	2.12 B ON APR 05	0B ON MAR 01	3 520	1983
1984	---	1.06 B ON MAR 26	0B ON MAR 01	307	1984
1985	---	0.100B ON MAR 25	0B ON MAR 01	60.5	1985
1986	2.76 AT 01:17 CST ON MAY 05 *	2.56 ON MAY 05 *	0B ON MAR 01	3 520	1986
1987	1.74 AT 00:43 CST ON APR 07	1.42 ON APR 07	0B ON MAR 01	1 180	1987
1988	---	0.107 ON APR 04	0B ON MAR 01	39.4	1988
1989	0.575 AT 07:12 CST ON APR 17	0.192B ON APR 18	0B ON MAR 01	88.9	1989
1990	0.207 AT 05:24 CST ON JUN 03	0.179 ON JUN 13	0B ON MAR 01	260	1990
				915	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PELICAN CREEK SOUTH TRIBUTARY NEAR BIRNIE - STATION NO. 05LL027

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	----	----	0	0.201	0.229	0.051	0.005	0	0	0	----	----	0.061	1974
1975	----	----	0	0.123	0.110	0.079	0.019	0.144	0.242	0.071	----	----	0.098	1975
1976	----	----	0.010	0.128	0.069	0.040	0.013	0	0	0	----	----	0.057	1976
1977	----	----	0	0.010	0.008	0.004	0.002	0	0	0.003	----	----	0.003	1977
1978	----	----	0	0.110	0.061	0.011	0.002	0	0	0.002	----	----	0.023	1978
1979	----	----	0	0.170	0.402	0.089	0.006	0	0	0	----	----	0.083	1979
1980	----	----	0	0.039	0.006	0.001	0	0.047	0.013	0.011	----	----	0.014	1980
1981	----	0.003	0.011	0.050	0.018	0.015	0.001	0	0	0.005	----	----	0.012	1981
1982	----	----	0	0.098	0.067	0.018	0.018	0.015	0.002	0.011	----	----	0.028	1982
1983	----	----	0	0.226	0.129	0.056	0.104	0.004	0	0	----	----	0.065	1983
1984	----	----	0.003	0.022	0.022	0.036	0.010	0.001	0	0.019	----	----	0.014	1984
1985	----	----	0.011	0.095	0.044	0.054	0.012	0.017	0.018	0.047	----	----	0.037	1985
1986	----	----	0.048	0.176	0.223	0.012	0.020	0.003	0.003	0.011	----	----	0.062	1986
1987	----	----	0.018	0.151	0.024	0.010	0.010	0.002	0.002	0.002	----	----	0.027	1987
1988	----	----	0	0.083	0.023	0.002	0.001	0	0	0	----	----	0.011	1988
1989	----	----	0	0.004	0.008	0.023	0	0	0	0	----	----	0.004	1989
1990	----	----	0.003	0.059	0.080	0.011	0.002	0	0	0	----	----	0.019	1990
MEAN	----	0.003	0.006	0.113	0.089	0.030	0.013	0.014	0.016	0.011	----	----	0.036	MEAN

LOCATION - LAT 50 28 36 N DRAINAGE AREA, 9.09 km²
LONG 099 28 33 W NATURAL FLOW

REMARKS - PRIOR TO 1987 PUBLISHED AS JUST "PELICAN CREEK NEAR BIRNIE"

PELICAN CREEK SOUTH TRIBUTARY NEAR BIRNIE - STATION NO. 05LL027

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	0.606 ON APR 25	0B ON MAR 01 *	1 280	1974
1975	2.86 AT 09:20 CST ON SEP 19 *	1.71 ON SEP 19 *	0B ON MAR 01	2 070	1975
1976	---	0.793 ON APR 17	0 ON JUL 27	1 200	1976
1977	---	0.040 ON MAY 05	0B ON MAR 01	58.7	1977
1978	---	0.249 ON APR 23	0B ON MAR 01	496	1978
1979	---	1.61 A ON MAY 16	0B ON MAR 01	1 760	1979
1980	0.594 AT 07:48 CST ON AUG 21	0.419 ON AUG 21	0B ON MAR 01	306	1980
1981	0.135 AT 16:27 CST ON APR 04	0.118 ON APR 02	0 ON JUL 29	264	1981
1982	---	0.377B ON APR 15	0B ON MAR 01	601	1982
1983	1.22 AT 20:48 CST ON APR 23	0.884 ON APR 24	0B ON MAR 01	1 370	1983
1984	0.745 AT 22:33 CST ON JUN 22	0.293 ON JUN 23	0B ON MAR 01	298	1984
1985	0.325 AT 01:14 CST ON APR 15	0.219 ON APR 15	0B ON MAR 01	786	1985
1986	1.73 B AT 19:50 CST ON MAY 05	1.12 A ON MAY 05	0 ON AUG 24	1 310	1986
1987	0.603B AT 20:45 CST ON APR 07	0.491B ON APR 07	0 ON AUG 07	573	1987
1988	0.414B AT 22:10 CST ON APR 03	0.273B ON APR 04	0B ON MAR 01	231	1988
1989	0.637 AT 04:07 CST ON JUN 13	0.348 ON JUN 13	0B ON MAR 01	87.4	1989
1990	1.83 AT 14:43 CST ON MAY 16	0.624 ON MAY 16	0B ON MAR 01	409	1990
				771	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER ABOVE LORNE LAKE - STATION NO. 05OA010

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0.028	1.93	0.065	2.56	0.094	0.769	0.073	0.071	---	---	0.689	1962
1963	---	---	0.329	0.996	0.431	0.984	0.121	0.030	0.017	0.025	---	---	0.363	1963
1964	---	---	0	2.16	0.942	0.380	0.331	0.075	0.089	0.113	---	---	0.507	1964
1965	---	---	0.016	4.19	1.69	0.893	0.548	0.286	0.095	0.057	---	---	0.963	1965
1966	---	---	1.15	1.04	1.18	0.274	0.517	0.057	0.006	0.007	---	---	0.530	1966
1967	---	---	0.052	1.48	0.952	0.204	0.028	0.005	0.002	0.006	---	---	0.339	1967
1968	---	---	0.293	0.356	0.246	0.049	0.035	0.585	1.43	0.240	---	---	0.401	1968
1969	---	---	0	11.7	0.734	0.129	0.808	0.089	0.017	0.027	---	---	1.66	1969
1970	---	---	0	3.33	3.49	0.594	0.110	0.027	0.017	0.029	---	---	0.945	1970
1971	---	---	0	2.08	0.580	0.754	0.747	0.040	0.024	0.334	---	---	0.566	1971
1972	---	---	3.49	4.49	1.28	2.56	0.429	1.07	0.143	0.103	---	---	1.69	1972
1973	---	---	0.573	0.270	0.855	0.941	0.364	0.203	0.242	0.232	---	---	0.460	1973
1974	---	---	0.043	13.1	6.33	0.986	0.108	0.044	0.023	0.031	---	---	2.55	1974
1975	---	---	0.006	9.43	3.77	1.10	0.206	0.045	0.290	0.464	---	---	1.99	1975
1976	---	---	0.093	13.1	0.842	0.200	0.038	0.009	0.004	0.004	---	---	1.76	1976
1977	---	---	0.130	0.254	0.521	0.076	0.098	0.014	0	0.001	---	---	0.137	1977
1978	---	---	0.035	4.16	0.801	0.279	0.218	0.130	0.075	0.024	---	---	0.460	1978
1979	---	---	0	7.33	2.14	0.596	0.037	0.010	0.002	0.001	---	---	1.25	1979
1980	---	---	0.003	1.41	0.098	0.016	0.005	0.111	0.078	0.219	---	---	0.239	1980
1981	---	0.333	0.354	0.220	0.248	0.230	0.120	0.103	0.054	0.052	---	---	0.173	1981
1982	---	---	0.942	4.86	0.711	0.505	0.071	0.007	0.003	0.095	---	---	0.888	1982
1983	---	---	0.824	2.75	0.657	0.173	0.030	0.002	0.001	0.001	---	---	0.550	1983
1984	---	---	0.516	0.675	0.762	0.058	0.011	0.002	0	0.001	---	---	0.253	1984
1985	---	---	3.69	0.813	0.107	0.044	0.037	0.109	0.045	0.073	---	---	0.619	1985
1986	---	---	1.45	1.93	1.61	0.107	0.066	0.071	0.008	0.009	---	---	0.656	1986
1987	---	---	4.34	3.03	0.162	0.003	0	0.317	0.030	0.094	---	---	0.997	1987
1988	---	---	0.021	0.274	0.059	0.024	0.001	0	0	0	---	---	0.047	1988
1989	---	---	0.539	1.64	0.055	0.017	0.010	0	0	0	---	---	0.280	1989
1990	---	---	0.049	0.236	0.050	0.383	0.240	0.010	0	0	---	---	0.120	1990
MEAN	---	0.333	0.654	3.35	1.08	0.521	0.187	0.146	0.095	0.080	---	---	0.758	MEAN

LOCATION - LAT 49 15 50 N DRAINAGE AREA, 549 km²
LONG 099 27 44 W REGULATED

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 3.05 AND 0.007 M3/S OCCURRED IN FEB

PEMBINA RIVER ABOVE LORNE LAKE - STATION NO. 05OA010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	25.5 ON JUN 16	0 B ON MAR 01 *	14 600	1962
1963	---	5.66 ON JUN 06	0 B ON MAR 01	7 680	1963
1964	---	7.33 B ON APR 11	0 B ON MAR 01	10 700	1964
1965	---	17.4 B ON APR 13	0 B ON MAR 01	20 400	1965
1966	---	2.89 B ON MAR 25	0 ON MAR 01	11 200	1966
1967	---	3.17 ON APR 30	0 B ON MAR 01	4 780	1967
1968	---	4.42 ON AUG 27	0 B ON MAR 01	8 490	1968
1969	---	44.7 ON APR 12	0 B ON MAR 01	35 100	1969
1970	---	21.2 ON APR 28	0 B ON MAR 01	20 000	1970
1971	---	6.43 ON APR 11	0 B ON MAR 01	12 000	1971
1972	---	18.0 B ON MAR 17	0 B ON MAR 01	35 700	1972
1973	---	3.94 ON JUN 22	0 B ON MAR 01	9 730	1973
1974	---	52.1 ON APR 22 *	0.006 ON AUG 10	54 100	1974
1975	---	38.5 ON APR 29	0.006B ON MAR 01	40 100	1975
1976	---	27.9 ON APR 07	0.003 ON SEP 19	37 200	1976
1977	---	2.12 ON MAY 20	0 ON AUG 29	2 900	1977
1978	---	5.78 B ON APR 06	0 ON AUG 01	9 740	1978
1979	---	45.3 B ON APR 20	0 B ON MAR 01	26 400	1979
1980	---	6.05 B ON APR 04	0.001 ON JUL 29	5 060	1980
1981	---	0.859B ON MAR 18	0.008 ON AUG 22	3 650	1981
1982	14.3 AT 16:46 CST ON APR 14	12.1 ON APR 14	0 B ON MAR 01	18 800	1982
1983	9.33B AT 16:06 CST ON APR 02	6.68 B ON APR 02	0.001 ON AUG 11	11 600	1983
1984	---	3.20 B ON MAR 25	0 B ON MAR 01	5 360	1984
1985	---	17.0 B ON MAR 21	0 B ON MAR 01	13 100	1985
1986	7.50 AT 21:31 CST ON APR 20	6.64 ON APR 20	0 B ON MAR 01	13 900	1986
1987	---	19.0 B ON MAR 22	0 B ON MAR 01	21 100	1987
1988	---	1.60 B ON APR 05	0 B ON MAR 01	988	1988
1989	20.8 B AT 00:05 CST ON APR 04 *	12.8 B ON APR 04	0 B ON MAR 01	5 920	1989
1990	---	0.977B ON APR 02	0 B ON MAR 01	2 540	1990
				16 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER ABOVE PEMBINA RIVER DIVERSION - STATION NO. 05OA012

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	0.763	0.821	0.473	1.03	0.074	0.016	0.003	0	---	---	0.395	1963
1964	---	---	0.015	1.59	0.499	0.137	0.247	0.009	0.008	0	---	---	0.310	1964
1965	---	---	0	4.76	1.35	1.04	0.200	0.055	0.051	0.062	---	---	0.928	1965
1966	---	---	1.30	1.22	1.37	0.410	0.715	0.106	0.003	0	---	---	0.641	1966
1967	---	---	0.085	1.05	0.783	0.177	0.035	0.006	0	0	---	---	0.265	1967
1968	---	---	0.299	0.386	0.162	0.052	0.033	0.356	0.489	0.116	---	---	0.236	1968
1969	---	---	0	12.9	1.19	0.275	1.61	0.063	0.018	0.029	---	---	1.98	1969
1970	---	---	0	3.17	3.27	0.302	0.036	0.007	0	0.003	---	---	0.845	1970
1971	---	---	0	1.07	0.487	0.789	0.722	0.023	0.005	0.298	---	---	0.544	1971
1972	---	---	3.21	1.89	1.11	1.89	0.392	0.985	0.093	0.230	---	---	1.47	1972
1973	---	---	0.432	0.295	0.779	0.973	0.299	0.345	0.197	0.233	---	---	0.444	1973
1974	---	---	0.035	12.5	5.41	0.748	0.084	0.058	0.033	0.034	---	---	2.33	1974
1975	---	---	0.020	8.18	3.21	1.05	0.164	0.025	0.300	0.530	---	---	1.67	1975
1976	---	---	0.052	12.6	0.959	0.397	0.035	0.009	0.002	0	---	---	1.73	1976
MEAN	---	---	0.444	4.67	1.50	0.662	0.332	0.147	0.086	0.110	---	---	0.985	MEAN

LOCATION - LAT 49 16 10 N LONG 099 34 40 W DRAINAGE AREA, 485 km² NATURAL FLOW

PEMBINA RIVER ABOVE PEMBINA RIVER DIVERSION - STATION NO. 05OA012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	---	---	1963
1964	---	5.13 ON JUN 06 3.40B ON APR 12	0 B ON MAR 01 * 0 B ON MAR 01	8 370 6 570	1964
1965	---	12.0 B ON APR 13	0 B ON MAR 01	19 600	1965
1966	---	3.00B ON MAR 22	0 ON MAR 01	13 600	1966
1967	---	2.56 ON MAY 04	0 B ON MAR 01	5 610	1967
1968	---	3.48 ON AUG 27	0 B ON MAR 01	4 990	1968
1969	---	58.3 ON APR 11 *	0 B ON MAR 01	41 800	1969
1970	---	20.7 ON APR 27	0 B ON MAR 01	17 900	1970
1971	---	7.93B ON APR 10	0 B ON MAR 01	11 500	1971
1972	---	14.6 B ON MAR 17	0 B ON MAR 01	31 100	1972
1973	---	4.87 ON JUN 21	0 B ON MAR 01	9 390	1973
1974	---	43.9 ON APR 17	0 ON AUG 01	49 400	1974
1975	---	46.2 ON APR 29	0.001 ON AUG 20	35 300	1975
1976	---	33.4 B ON APR 03	0 ON JUL 24	36 600	1976
				20 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER AT NECHE - STATION NO. 05OC004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1903	---	---	---	---	5.71	4.22	1.71	0.934	0.934	1.13	0.850	0.425	---	1903
1904	0.227	0.113	0.057	42.2	74.8	47.9	23.8	10.9	8.54	6.65	4.81	3.68	18.6	1904
1905	1.67	0.566	5.66	13.6	12.7	13.7	5.84	2.75	2.66	3.37	2.27	0.566	5.46	1905
1906	0.283	0.142	0.057	11.6	5.45	7.69	4.96	3.70	4.17	4.08	2.75	0.425	3.77	1906
1907	0.142	0.057	0.085	4.81	45.3	14.4	4.41	1.54	0.986	1.56	1.08	0.538	6.30	1907
1908	0.170	0.085	0.085	9.29	13.4	6.35	2.49	1.48	1.73	---	---	---	---	1908
1909	---	---	---	---	---	9.32	3.65	1.37	0.784	1.30	0.991	0.142	---	1909
1910	0.085	0.057	5.97	4.69	3.39	1.71	0.989	0.194	0.111	0.181	0.085	0.057	1.47	1910
1911	0.028	0.014	5.61	8.32	6.53	4.36	1.39	0.683	0.162	0.555	0.425	0.283	2.37	1911
1912	0.142	0.057	0.198	4.48	4.93	4.20	3.66	2.44	2.47	3.42	3.40	1.42	2.95	1912
1913	0.566	0.283	0.142	47.4	15.0	5.41	3.01	1.97	1.75	1.80	1.42	0.566	6.58	1913
1914	0.283	0.283	1.42	7.70	6.23	3.81	1.37	0.379	0.364	0.901	0.597	0.255	1.97	1914
1915	0.170	0.142	0.255	1.29	0.715	0.698	0.574	0.248	0.220	---	---	---	---	1915
1919	---	---	---	23.3	10.7	4.64	2.47	0.841	0.975	2.51	1.84	0.850	---	1919
1920	0.566	0.425	0.792	5.06	6.46	4.20	2.17	0.500	0.520	3.58	2.69	1.70	2.39	1920
1921	0.850	0.566	0.566	10.1	4.77	2.73	3.20	0.532	0.460	3.00	1.52	0.850	2.43	1921
1922	0.227	0.127	1.16	12.7	6.88	3.95	0.752	0.265	1.09	1.93	2.09	0.934	2.67	1922
1923	0.566	0.283	0.311	32.4	32.0	8.92	2.44	2.52	2.95	3.22	2.56	0.651	7.42	1923
1924	0.113	0.085	0.198	6.21	4.43	2.79	1.53	0.407	0.582	4.79	2.99	0.566	2.06	1924
1925	0.057	0.057	10.9	11.9	5.57	7.16	3.22	0.539	1.56	4.05	1.90	0.708	3.98	1925
1926	0.340	0.085	1.66	4.11	2.84	2.72	2.63	0.377	4.35	1.65	1.22	0.878	1.66	1926
1927	0.425	0.113	7.96	29.6	32.8	16.1	6.57	5.37	7.74	6.51	3.49	1.42	10.9	1927
1928	1.13	0.708	9.14	10.1	5.91	5.12	4.30	1.68	2.03	3.44	1.27	0.635	3.80	1928
1929	0.340	0.227	5.19	6.22	3.11	2.25	0.176	0.109	0.135	0.538	1.29	0.227	1.65	1929
1930	0.057	0.028	0.028	26.3	13.0	6.11	2.43	0.451	0.338	0.730	0.316	0.079	4.14	1930
1931	0.204	0.187	1.28	13.1	5.91	0.632	0.305	0.058	0.011	0.018	0.140	0.029	1.56	1931
1932	0.004	0.098	0.401	12.0	5.26	2.02	0.598	0.173	0.052	0.213	0.227	0.077	1.75	1932
1933	0	0	0.507	20.4	15.7	9.06	2.11	0.771	0.018	1.34	0.684	0.272	4.30	1933
1934	0.134	0.136	2.13	9.72	4.35	1.92	0.564	0.039	0.003	0.048	0.030	0.002	1.59	1934
1935	0	0	0.357	4.08	1.82	3.06	1.77	0.666	0.421	0.396	0.142	0.062	1.06	1935
1936	0.016	0.001	0	19.3	12.1	5.57	1.61	0.586	0.717	0.401	0.201	0.100	3.37	1936
1937	0.016	0	0	3.17	2.12	1.86	0.404	0.353	0.011	0.023	0.010	0.005	0.663	1937
1938	0	0	5.07	2.86	2.22	1.04	0.353	0.001	0	0	0	0	0.970	1938
1939	0	0	0	0.699	0.333	0.305	0.017	0	0	0	0	0	0.112	1939
1940	0	0	0	2.66	1.00	0.186	0	0.200	0	0	0	0	0.335	1940
1941	0	0	0	28.2	10.9	4.94	1.75	0.797	3.81	3.45	1.47	0.744	4.65	1941
1942	0.100	0.031	1.30	53.8	27.0	10.3	3.66	2.83	2.94	1.43	0.960	0.269	8.68	1942
1943	0.184	0.155	4.39	14.6	8.55	8.92	6.41	3.86	5.12	4.48	2.04	1.37	5.05	1943
1944	0.209	0.103	0.106	7.75	5.77	7.23	16.0	23.0	13.1	5.75	6.62	2.97	7.40	1944
1945	1.22	1.40	21.0	30.6	21.5	12.4	7.28	4.03	2.73	1.89	1.01	0.615	8.83	1945
1946	0.254	0.253	16.1	19.1	8.22	3.21	1.91	0.906	0.575	0.836	0.644	0.209	4.37	1946
1947	0.050	0.034	0.029	17.2	8.27	5.66	2.49	1.46	1.04	1.52	0.796	0.437	3.48	1947
1948	0.398	0.156	0.143	26.3	25.2	11.7	8.83	5.58	3.32	1.89	1.29	0.585	7.11	1948
1949	0.363	0.340	0.324	68.8	44.4	18.6	7.72	4.03	1.96	1.60	1.18	0.504	12.5	1949
1950	0.250	0.199	0.271	51.1	81.7	34.3	16.9	11.6	6.30	4.30	2.49	1.06	17.6	1950
1951	0.892	0.708	1.09	23.9	14.5	7.52	3.40	1.91	1.38	0.818	0.445	0.206	4.73	1951
1952	0.036	0.028	0.036	8.03	5.79	3.48	2.00	0.583	0.128	0.101	0.171	0.039	1.70	1952
1953	0.006	0.003	0.026	2.01	1.32	4.46	2.57	1.81	0.415	0.250	0.271	0.103	1.11	1953
1954	0.030	0.009	0.262	2.68	2.28	11.0	19.4	11.4	5.83	4.07	2.17	0.794	5.03	1954
1955	0.296	0.457	0.386	42.8	24.2	16.4	8.60	3.09	1.61	1.51	0.709	0.409	8.36	1955
1956	0.250	0.242	0.343	33.4	64.1	24.9	10.7	5.17	3.98	2.83	1.79	0.566	12.4	1956
1957	0.446	0.218	3.35	7.80	5.72	3.82	1.81	2.20	3.30	4.68	2.46	1.74	3.14	1957
1958	0.993	0.596	0.606	5.82	3.55	1.10	0.903	0.147	0.085	0.151	0.108	0.009	1.18	1958
1959	0.004	0.003	0.021	14.2	4.71	3.96	1.13	0.510	0.308	0.903	1.75	2.84	2.52	1959
1960	1.87	1.13	0.654	51.9	35.5	13.6	5.76	2.67	1.25	0.753	0.549	0.149	9.62	1960
1961	0.123	0.056	1.39	7.60	5.17	1.61	0.306	0.068	0.103	0.120	0.087	0.027	1.40	1961
1962	0.011	0.004	0.029	19.1	10.7	8.39	3.25	2.35	2.83	1.76	0.893	0.626	4.15	1962
1963	0.522	0.047	2.58	5.57	5.44	7.60	4.87	3.60	2.11	1.29	0.622	0.187	2.88	1963
1964	0.093	0.091	0.078	9.31	9.30	5.76	2.07	1.40	1.62	1.24	0.642	0.197	2.65	1964
1965	0.125	0.105	0.078	24.4	19.9	12.8	5.14	2.12	2.68	2.41	1.45	0.965	6.02	1965
1966	0.608	0.464	3.94	43.8	27.3	11.0	6.85	3.21	1.27	0.733	0.447	0.206	8.32	1966
1967	0.229	0.238	0.753	26.1	28.6	9.00	2.98	1.09	0.378	0.626	0.544	0.177	5.90	1967
1968	0.073	0.051	4.41	5.80	4.07	1.98	1.24	3.92	9.71	10.7	5.41	1.60	4.08	1968
1969	0.660	0.480	0.665	89.2	51.1	17.6	10.3	5.20	3.43	2.29	1.65	0.830	15.3	1969
1970	0.491	0.430	0.333	45.7	65.5	41.5	22.9	9.13	5.10	3.34	2.20	0.690	16.5	1970
1971	0.415	0.390	0.457	67.9	42.9	16.5	9.73	7.54	4.46	2.96	1.98	0.974	13.0	1971
1972	0.489	0.308	11.2	37.7	25.2	10.1	5.63	5.04	3.44	2.42	0.997	0.240	8.51	1972
1973	0.079	0.076	2.57	2.87	2.01	1.45	1.80	1.74	1.45	1.27	1.00	0.589	1.49	1973
1974	0.299	0.176	0.332	85.7	131	50.3	15.0	4.24	2.80	1.84	1.10	0.613	24.5	1974
1975	0.336	0.207	0.232	10.2	34.6	18.8	7.48	2.86	1.42	1.25	0.797	0.339	6.59	1975
1976	0.373	0.424	0.869	78.4	41.0	14.2	7.13	2.41	1.17	0.794	0.417	0.072	12.2	1976
1977	0.062	0.065	0.433	1.96	2.27	1.39	0.534	0.162	0.723	0.825	0.308	0.170	0.743	1977
1978	0.085	0.012	0.002	33.1	14.7	5.51	1.93	1.33	1.41	0.704	0.331	0.143	4.93	1978
1979	0.106	0.093	0.135	56.4	93.0	24.6	8.17	2.28	1.76	1.30	0.778	0.374	15.8	1979
1980	0.183	0.143	0.165	5.80	2.39	1.04	0.318	0.324	0.365	0.594	0.704	0.165	1.01	1980
1981	0.039	0.712	3.18	6.25	3.89	1.86	0.799	0.400	0.178	0.394	0.315	0.104	1.51	1981
1982	0.028	0.001	0.946	17.1	10.3	14.7	7.40	3.79	1.73	2.30	0.816	0.587	5.66	1982
1983	0.363	0.154	4.88	26.0	12.9	7.78	2.07	0.648	0.355	0.691	0.537	0.068	4.70	1983
1984	0.015	0	0.726	4.19	4.64	3.92	0.932	0.198	0.065	0.205	0.126	0.064	1.26	1984
1985	0.002	0	14.0	23.6	7.49	3.87	3.86	2.30	1.28	1.56	1.19	0.504	4.98	1985
1986	0.431	0.238	16.2	26.2	21.8	10.8	5.08	3.78	1.85	1.40	0.493	0.345	7.42	1986
1987	0.384	0.490	1.37	56.6	24.9	7.49	3.22	1.75	1.83	1.86	1.02	0.548	8.43	1987
1988	0.120	0.062	1.26	4.13	1.53	0.468	0.093	0.012	0.003	0.011	0.076	0.087	0.552	1988
1989	0.005	0	0	5.03	2.91	1.59	0.365	0.017	0	0	0.120	0	0.835	1989

CONTINUED

PEMBINA RIVER AT NECHE - STATION NO. 05OC004 (CONTINUED)

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1990	0	0	0.023	8.94	3.46	5.24	1.70	0.175	0.005	0.001	0.032	0.003	1.62	1990
MEAN	0.286	0.201	2.33	21.3	17.8	8.73	4.38	2.47	1.93	1.86	1.20	0.545	5.37	MEAN

LOCATION - LAT 48 59 20 N LONG 097 33 05 W DRAINAGE AREA, 8 480 km² REGULATED INTERNATIONAL GAUGING STATION

REMARKS - FORMERLY PUBLISHED UNDER STA. NO. 05OC001

PEMBINA RIVER AT NECHE - STATION NO. 05OC004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1903	---	---	---	---	1903
1904	122 ON MAY 02	110 ON MAY 02	0.057E ON MAR 01	590 000	1904
1905	---	38.8 ON APR 05	0.566E ON FEB 01	172 000	1905
1906	22.7 ON APR 04	11.6 E ON APR 01	0.057E ON MAR 01	119 000	1906
1907	---	62.0 ON MAY 14	0.057E ON FEB 01	199 000	1907
1908	26.0 ON APR 10	16.7 ON MAY 11	---	---	1908
1909	---	---	---	---	1909
1910	19.4 ON MAR 15	7.08 ON APR 20	0.057E ON FEB 01	46 300	1910
1911	25.5 ON MAR 24	14.7 ON MAY 18	0.014E ON FEB 01	74 800	1911
1912	58.3 ON JUL 29	24.6 ON JUL 29	0.057E ON FEB 01	93 400	1912
1913	110 ON APR 07	109 ON APR 08	0.142E ON MAR 01	207 000	1913
1914	---	11.0 ON APR 18	0.170 ON SEP 11	62 000	1914
1915	5.10 ON APR 07	4.36 ON APR 07	---	---	1915
1919	---	68.8 ON APR 15	---	---	1919
1920	---	10.2 B ON APR 19	0.283B ON MAR 26	75 600	1920
1921	---	20.8 ON APR 13	0.127 ON SEP 23	76 800	1921
1922	---	36.8 ON APR 07	0.127B ON FEB 01	84 300	1922
1923	---	88.3 ON APR 20	0.283E ON FEB 01	234 000	1923
1924	---	19.1 ON APR 20	0.085E ON FEB 01	65 000	1924
1925	---	66.5 ON MAR 28	0.057E ON JAN 01	126 000	1925
1926	---	9.00 ON JUL 06	0.057E ON MAR 01	52 400	1926
1927	88.1 ON MAY 12	86.4 ON MAY 12	0.113B ON FEB 01	317 000	1927
1928	---	36.0 B ON MAR 25	0.566B ON DEC 16	120 000	1928
1929	---	21.2 B ON MAR 21	0.028 ON JUL 05	52 200	1929
1930	---	82.1 B ON APR 08	0.028B ON FEB 01	131 000	1930
1931	44.7 B ON APR 09	42.2 B ON APR 09	0.006 ON SEP 09	49 300	1931
1932	35.1 B ON APR 09	33.1 B ON APR 09	0 B ON FEB 01 *	55 200	1932
1933	---	33.4 ON MAY 26	0 E ON JAN 01	136 000	1933
1934	---	22.1 B ON APR 09	0 ON SEP 15	50 000	1934
1935	---	10.3 ON JUN 18	0 ON JAN 01	33 500	1935
1936	---	71.6 ON APR 15	0 ON FEB 10	107 000	1936
1937	6.71 ON JUN 08	6.03 ON APR 11	0 ON JAN 29	20 900	1937
1938	20.7 AT 02:00 CST ON MAR 20	17.8 ON MAR 19	0 E ON JAN 01	30 600	1938
1939	1.47B ON APR 04	1.42B ON APR 04	0 ON JAN 01	3 540	1939
1940	23.1 B AT 18:00 CST ON APR 20	20.7 B ON APR 20	0 E ON JAN 01	10 600	1940
1941	---	80.1 ON APR 14	0 E ON JAN 01	147 000	1941
1942	101 ON APR	97.1 ON APR 08	0.023B ON FEB 11	274 000	1942
1943	39.6 B ON MAR 27	31.1 B ON MAR 27	0.096B ON MAR 09	159 000	1943
1944	---	34.0 ON AUG 06	0.074B ON FEB 10	234 000	1944
1945	69.1 AT 19:00 CST ON MAR 29	68.0 ON MAR 29	0.311B ON DEC 30	279 000	1945
1946	---	58.6 B ON MAR 24	0.085B ON DEC 29	138 000	1946
1947	37.4 AT 10:00 CST ON APR 11	36.5 ON APR 11	0.017B ON FEB 02	110 000	1947
1948	107 AT 08:30 CST ON APR 21	102 ON APR 21	0.142B ON FEB 08	225 000	1948
1949	142 AT 15:00 CST ON APR 22	139 ON APR 22	0.255B ON DEC 29	393 000	1949
1950	303 B AT 09:30 CST ON APR 20 *	218 B ON APR 20	0.198B ON JAN 31	556 000	1950
1951	56.6 B AT 13:00 CST ON APR 07	55.2 B ON APR 07	0.057B ON DEC 29	149 000	1951
1952	---	14.2 B ON APR 03	0.008 ON DEC 31	53 700	1952
1953	7.08 ON JUN 10	6.74 ON JUN 11	0 ON MAR 10	34 900	1953
1954	24.0 AT 16:00 CST ON JUL 07	23.6 ON JUL 07	0.008B ON FEB 06	159 000	1954
1955	76.5 AT 18:00 CST ON APR 05	73.6 ON APR 05	0.227 ON JAN 21	264 000	1955
1956	147 AT 02:00 CST ON APR 27	136 ON APR 27	0.198 ON FEB 25	392 000	1956
1957	18.7 AT 22:30 CST ON MAR 27	17.0 ON MAR 27	0.142 ON MAR 11	99 000	1957
1958	12.5 AT 16:30 CST ON APR 07	10.5 ON APR 07	0.003B ON DEC 12	37 100	1958
1959	51.0 B AT 22:30 CST ON APR 05	48.1 B ON APR 05	0.003B ON JAN 07	79 400	1959
1960	114 B AT 10:00 CST ON APR 14	108 B ON APR 14	0 ON SEP 16	304 000	1960
1961	10.5 AT 21:00 CST ON APR 03	9.91 ON APR 03	0 ON AUG 29	44 000	1961
1962	103 B AT 14:30 CST ON APR 21	102 B ON APR 21	0 ON FEB 21	131 000	1962
1963	32.6 AT 00:20 CST ON JUL 28	24.5 ON JUL 28	0.003 ON MAR 09	90 800	1963
1964	30.6 B AT 16:30 CST ON APR 17	22.5 B ON APR 17	0.062B ON MAR 10	83 700	1964
1965	102 AT 00:00 CST ON APR 14	96.3 ON APR 14	0.054B ON MAR 29	190 000	1965
1966	122 B AT 10:00 CST ON APR 03	113 B ON APR 03	0.144B ON DEC 12	262 000	1966
1967	82.1 AT 13:00 CST ON APR 23	80.4 ON APR 23	0.065 ON DEC 28	186 000	1967
1968	20.8 AT 06:00 CST ON MAR 28	20.6 ON MAR 28	0.045 ON FEB 21	129 000	1968
1969	208 AT 13:45 CST ON APR 21	197 ON APR 22	0.340B ON JAN 28	481 000	1969
1970	200 AT 20:00 CST ON APR 27	180 ON APR 28 *	0.170B ON MAR 31	520 000	1970
1971	208 AT 12:30 CST ON APR 12	200 ON APR 12 *	0.340B ON FEB 19	410 000	1971
1972	72.2 AT 00:30 CST ON APR 16	66.0 B ON APR 15	0.113B ON DEC 21	269 000	1972
1973	6.34 ON MAR 27	6.06 ON MAR 27	0.076B ON JAN 05	46 900	1973
1974	292 AT 05:00 CST ON APR 28	282 ON APR 28 *	0.170B ON FEB 06	773 000	1974
1975	42.5 AT 03:00 CST ON MAY 18	42.2 ON MAY 16	0.153 ON MAR 14	208 000	1975
1976	125 AT 19:00 CST ON APR 19	124 ON APR 19	0.227B ON DEC 08	386 000	1976
1977	7.39 AT 09:00 CST ON MAY 21	6.63 ON MAY 21	0.057B ON JAN 01	23 400	1977
1978	---	95.7 B ON APR 11	0 B ON MAR 07	155 000	1978
1979	---	263 B ON APR 21	0.085B ON JAN 17	499 000	1979
1980	12.3 AT 07:00 CST ON APR 07	12.1 ON APR 07	0.057B ON DEC 25	31 900	1980
1981	8.07 AT 12:00 CST ON APR 01	7.39 ON APR 01	0.010B ON FEB 14	17 600	1981
1982	---	40.3 ON JUN 08	0 B ON FEB 08	178 000	1982
1983	---	45.1 B ON APR 09	0.014B ON DEC 31	148 000	1983
1984	8.83 AT 16:00 CST ON APR 07	7.05 ON APR 03	0 B ON JAN 28	39 700	1984
1985	49.6 B AT 17:00 CST ON MAR 20	48.7 B ON MAR 20	0 B ON JAN 12	157 000	1985
1986	---	62.3 B ON MAR 24	0.156B ON FEB 22	234 000	1986
1987	156 B AT 20:00 CST ON APR 07	130 B ON APR 07	0.159B ON FEB 05	266 000	1987
1988	11.9 AT 10:40 CST ON APR 06	11.2 ON APR 06	0.001E ON SEP 18	20 600	1988
1989	28.3 AT 21:00 CST ON APR 17	17.8 B ON APR 18	0 ON JAN 21	26 300	1989
1990	28.3 AT 15:20 CST ON APR 02	25.5 B ON APR 03	0 B ON JAN 01	51 200	1990
				170 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER BELOW CRYSTAL CREEK - STATION NO. 05OB023

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	4.00	3.44	4.62	2.73	0.844	1.02	---	---	---	---	1962
1963	---	---	0.301	3.44	3.55	2.91	1.67	0.850	0.150	0.111	0.082	0.011	---	1963
1964	0	0	0.010	7.76	5.27	0.693	0.883	0.077	0.028	0.120	0.040	0.024	1.24	1964
1965	0.010	0.006	0.036	11.1	13.4	5.72	0.766	1.35	0.888	0.907	0.701	0.451	2.95	1965
1966	0.217	0	4.99	11.7	6.97	2.80	1.86	0.201	0.083	0.064	0.038	0.015	2.41	1966
1967	0.021	0.032	0.300	7.99	8.41	1.27	0.302	0.220	0.020	0.009	0.020	0.006	1.55	1967
1968	0	0	1.17	0.170	0.149	0.354	0.422	1.47	12.8	4.95	0.355	0.130	2.00	1968
1969	0.182	0.485	1.15	80.2	23.1	7.27	3.31	3.01	0.613	0.285	0.186	0.085	9.94	1969
1970	0.070	0.167	0.405	18.3	37.9	20.7	8.80	2.54	0.694	0.339	0.192	0.101	7.55	1970
1971	0.053	0.035	0.058	36.6	17.0	7.65	10.5	3.37	0.453	0.212	0.507	1.06	6.46	1971
1972	0.516	0.214	8.44	19.4	13.2	6.76	5.33	1.49	1.31	0.243	0.206	0.130	4.77	1972
1973	0.135	0.082	0.575	0.792	0.772	1.89	2.41	0.800	1.14	0.894	0.450	0.450	0.870	1973
1974	0.323	0.377	0.389	76.7	49.9	21.6	4.50	0.659	0.110	0.060	0.020	0.017	12.9	1974
1975	0.019	0.017	0.016	12.0	32.2	10.7	3.13	0.108	0.048	0.069	0.054	0.040	4.89	1975
1976	1.57	0.132	0.083	63.6	19.2	5.60	0.799	0.093	0.034	0.014	0.010	0.010	7.54	1976
1977	0.011	0.017	0.018	0.074	0.083	0.061	0.052	0.017	0.016	0.020	0.019	0.018	0.034	1977
1978	0.024	0.024	0.040	10.8	5.77	2.16	0.440	0.028	0.007	0.015	0.010	0.007	1.61	1978
1979	0.002	0.001	0.003	40.4	35.4	7.53	1.05	0.098	0.125	0.048	0.056	0.025	7.06	1979
1980	0.018	0.019	0.021	2.43	0.353	0.106	0.089	0.005	0.006	0.026	0.001	0.001	0.253	1980
1981	0.007	0.046	3.72	4.92	0.191	0.103	0.042	0.043	0.047	0.056	0.059	0.044	0.774	1981
1982	0.012	0.009	0.251	16.9	11.1	9.09	3.06	0.633	0.087	0.077	0.052	0.210	3.46	1982
1983	0.834	0.323	1.52	15.7	5.96	1.65	0.827	0.040	0.019	0.017	0.014	0.007	2.24	1983
1984	0.004	0.015	0.190	1.34	2.23	1.22	0.052	0.015	0.002	0.007	0.010	0.013	0.425	1984
1985	0.005	0.002	6.98	8.48	1.86	0.848	0.575	0.137	0.040	0.040	0.048	0.010	1.59	1985
1986	0.023	0.023	3.61	11.3	9.35	3.55	2.46	0.508	0.071	0.232	0.106	0.033	2.61	1986
1987	0.031	0.031	0.910	34.5	7.32	0.898	0.036	0.997	1.42	0.241	0.092	0.054	3.93	1987
1988	0.004	0.014	0.090	0.125	0.089	0.029	0.011	0	0.001	0.004	0.008	0.004	0.032	1988
1989	0.009	0.008	0.032	4.30	1.37	0.111	0.037	0.001	0.007	0.020	0.013	0.002	0.490	1989
1990	0.001	0.001	0.054	2.84	0.175	0.426	0.148	0.018	0.015	0.004	0.017	0.006	0.306	1990
MEAN	0.152	0.077	1.22	17.5	10.9	4.52	1.94	0.749	0.733	0.324	0.121	0.106	3.33	MEAN

LOCATION - LAT 49 13 10 N DRAINAGE AREA 4 470 km²
LONG 099 01 40 W REGULATED SINCE 1940

PEMBINA RIVER BELOW CRYSTAL CREEK - STATION NO. 05OB023

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	19.8 B ON APR 18	0 B ON MAR 01 *	---	1962
1963	---	11.3 ON JUN 11	0 B ON MAR 01	---	1963
1964	---	11.5 ON APR 18	0 B ON JAN 01	39 200	1964
1965	---	20.7 ON APR 20	0.006B ON FEB 01	93 000	1965
1966	---	23.1 B ON MAR 31	0 B ON JAN 31	76 100	1966
1967	---	15.3 ON APR 25	0 B ON DEC 19	49 000	1967
1968	---	16.9 ON SEP 20	0 B ON JAN 01	63 300	1968
1969	---	278 B ON APR 15	0.068B ON JAN 01	313 000	1969
1970	---	78.7 ON MAY 16	0.065B ON JAN 16	238 000	1970
1971	---	80.7 ON APR 12	0.034B ON FEB 11	204 000	1971
1972	---	22.0 ON APR 14	0.113B ON DEC 26	151 000	1972
1973	---	3.20 ON JUL 07	0.071B ON FEB 15	27 400	1973
1974	---	317 ON APR 22 *	0.010B ON NOV 14	405 000	1974
1975	---	59.5 ON MAY 04	0.011 ON SEP 15	154 000	1975
1976	---	118 B ON APR 08	0.010B ON NOV 03	238 000	1976
1977	---	0.122B ON APR 10	0.009B ON JAN 01	1 070	1977
1978	---	16.8 B ON APR 11	0 ON SEP 10	50 800	1978
1979	---	167 ON APR 25	0.001B ON JAN 20	223 000	1979
1980	---	4.90 A ON APR 09	0 ON JUL 30	8 010	1980
1981	12.1 AT 12:53 CST ON MAR 31	12.0 ON MAR 31	0.001B ON JAN 01	24 400	1981
1982	27.8 AT 07:25 CST ON APR 17	27.8 ON APR 18	0.006B ON FEB 16	109 000	1982
1983	22.1 AT 17:39 CST ON APR 09	21.9 ON APR 09	0.004B ON DEC 20	70 500	1983
1984	3.25 AT 02:22 CST ON MAY 18	3.11 ON MAY 18	0.001 ON AUG 28	13 400	1984
1985	23.1 AT 08:25 CST ON MAR 23	22.5 ON MAR 23	0.001B ON FEB 22	50 100	1985
1986	16.2 B AT 07:24 CST ON MAR 29	16.2 B ON MAR 29	0.016B ON JAN 01	82 500	1986
1987	63.2 AT 14:36 CST ON APR 06 *	60.5 ON APR 09	0.021 ON AUG 04	124 000	1987
1988	0.423 AT 22:42 CST ON APR 08	0.350B ON APR 03	0 ON AUG 09	1 000	1988
1989	15.1 B AT 01:00 CST ON APR 16	14.3 B ON APR 15	0 ON AUG 08	15 500	1989
1990	14.7 B AT 08:17 CST ON APR 03	13.9 B ON APR 03	0.001B ON JAN 01	9 640	1990
				105 000	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NEAR KALEIDA - STATION NO. 05OB008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	---	---	---	3.92	1.73	2.04	---	1957
1958	1.01	0.481	0.546	4.37	2.26	0.545	0.318	0.026	0.000	0.013	0.256	0.102	0.826	1958
1959	0.016	0	0.263	5.46	2.11	1.18	0.261	0.198	0.118	0.952	2.81	3.06	1.37	1959
1960	1.55	1.24	0.577	46.4	33.3	10.4	4.19	1.99	0.891	0.511	0.191	0.119	8.42	1960
1961	0.123	0.057	0.609	7.18	3.87	0.777	0.080	0.015	0.022	0.007	0	0	1.07	1961
1962	0	0	0.001	8.17	5.98	4.49	1.77	2.31	2.67	1.44	0.628	0.467	2.30	1962
1963	0.203	0	0.869	3.90	6.21	6.27	2.60	2.91	1.64	0.763	0.438	0.044	2.16	1963
1964	0	0	0.006	6.22	9.62	3.21	0.679	0.716	0.800	0.497	0.224	0.005	1.83	1964
1965	0	0	0	13.9	18.1	10.7	3.61	1.71	2.69	1.94	1.27	0.691	4.55	1965
1966	0.258	0	4.99	30.0	19.8	8.17	3.57	1.64	0.576	0.174	0.156	0.047	5.79	1966
1967	0.085	0.132	0.812	14.4	19.7	7.01	1.74	0.377	0.093	0.462	0.145	0.066	3.77	1967
1968	0	0	3.11	3.23	1.61	0.710	0.714	2.92	11.3	11.4	4.75	1.33	3.43	1968
1969	0.475	0.418	0.405	95.0	47.4	13.4	7.52	3.81	2.56	1.61	0.953	0.700	14.5	1969
MEAN	0.310	0.194	1.02	19.9	14.2	5.57	2.25	1.55	1.95	1.80	1.04	0.668	4.17	MEAN

LOCATION - LAT 49 03 30 N LONG 098 27 50 W DRAINAGE AREA, 7 130 km² REGULATED

PEMBINA RIVER NEAR KALEIDA - STATION NO. 05OB008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	8.50 ON APR 06	0.006A ON SEP 02	26 000	1958
1959	15.7B AT 20:00 CST ON APR 05	14.2 B ON APR 05	0 B ON JAN 19 *	43 200	1959
1960	75.3 AT 06:00 CST ON APR 24 *	74.2 ON APR 24	0.051B ON DEC 26	266 000	1960
1961	---	8.09B ON APR 18	0 ON OCT 27	33 700	1961
1962	36.2 AT 20:40 CST ON APR 20	34.5 ON APR 20	0 B ON JAN 01	72 600	1962
1963	---	8.44 ON JUN 05	0 B ON JAN 15	68 200	1963
1964	---	11.7 ON MAY 10	0 B ON JAN 01	50 000	1964
1965	---	25.1 B ON APR 14	0 B ON JAN 01	144 000	1965
1966	65.1B AT 01:30 CST ON APR 03	58.0 B ON APR 03	0 B ON FEB 01	181 000	1966
1967	40.7 AT 16:30 CST ON APR 23	40.5 ON APR 23	0 B ON DEC 30	119 000	1967
1968	---	12.1 ON SEP 27	0 B ON JAN 01	108 000	1968
1969	---	266 ON APR 19 *	0.314B ON MAR 17	457 000	1969
				132 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NEAR KILLARNEY - STATION NO. 05OA008

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.803	0.159	0.064	0.065	0.001	0.335	0.010	0.836	---	---	0.287	1959
1960	---	---	0.256	5.08	2.14	0.525	0.027	0	0	0	---	---	0.992	1960
1961	---	---	0.711	0.344	0.139	0.012	0	0	0	0	---	---	0.151	1961
1962	---	---	0.044	1.83	0.520	1.19	0.036	0.031	0	0	---	---	0.411	1962
1963	---	---	0.491	0.827	0.521	0.988	0.014	0.009	0.005	0.002	---	---	0.354	1963
1964	---	---	0.002	2.39	0.851	0.431	0.138	0.005	0.010	0.020	---	---	0.450	1964
1965	---	---	0	3.16	1.26	0.592	0.420	0.154	0.209	0.113	---	---	0.732	1965
1966	---	---	1.15	1.07	1.80	0.332	0.746	0.084	0.002	0	---	---	0.650	1966
1967	---	---	0.029	0.873	0.640	0.146	0.003	0	0	0	---	---	0.210	1967
1968	---	---	0.096	0.175	0.099	0.033	0.026	0.492	0.738	0.107	---	---	0.220	1968
1969	---	---	0	8.83	1.15	0.427	2.00	0.111	0.006	0.017	---	---	1.55	1969
1970	---	---	0	2.88	3.39	0.188	0.036	0.008	0	0	---	---	0.810	1970
1971	---	---	0	4.26	0.363	1.04	0.934	0.001	0	0.366	---	---	0.615	1971
1972	---	---	3.06	3.89	1.45	2.51	0.216	0.075	0.050	0.019	---	---	1.37	1972
1973	---	---	0.310	0.167	0.776	1.44	0.309	0.277	0.214	0.264	---	---	0.467	1973
1974	---	---	0.003	12.1	4.91	0.580	0.075	0.074	0.007	0.044	---	---	2.21	1974
1975	---	---	0.014	7.81	2.62	1.25	0.086	0.031	0.409	0.923	---	---	1.62	1975
1976	---	---	1.03	9.89	0.540	0.416	0.005	0	0	0	---	---	1.42	1976
1977	---	---	0.104	0.113	0.159	0.042	0.130	0.022	0.003	0.005	---	---	0.072	1977
1978	---	---	0.029	1.23	0.433	0.311	0.048	0	0	0	---	---	0.294	1978
1979	---	---	0	7.06	1.70	0.399	0.016	0.001	0	0	---	---	1.13	1979
1980	---	---	0	0.714	0.008	0	0	0.110	0.077	0.166	---	---	0.133	1980
1981	---	0.600	0.271	0.158	0.141	0.252	0.071	0.075	0.010	0.020	---	---	0.126	1981
1982	---	---	0.443	2.43	0.429	0.137	0.035	0.007	0.002	0.039	---	---	0.415	1982
1983	---	---	0.941	1.49	0.598	0.131	0.046	0.001	0.001	0.001	---	---	0.399	1983
1984	---	---	0.357	0.271	0.518	0.051	0.005	0	0	0	---	---	0.151	1984
1985	---	---	2.94	0.503	0.081	0.010	0.018	0.109	0.005	0.027	---	---	0.465	1985
1986	---	---	1.03	1.25	1.52	0.061	0.074	0.027	0	0.003	---	---	0.497	1986
1987	---	---	2.14	1.62	0.081	0.015	0.001	0.043	0.001	0.002	---	---	0.487	1987
1988	---	---	0.020	0.236	0.065	0.012	0.001	0	0	0	---	---	0.042	1988
1989	---	---	0.735	0.935	0.027	0.013	0.001	0	0	0	---	---	0.213	1989
1990	---	---	0.072	0.129	0.011	0.297	0.219	0.003	0	0	---	---	0.091	1990
MEAN	---	0.600	0.534	2.56	0.894	0.426	0.179	0.065	0.055	0.093	---	---	0.595	MEAN

LOCATION - LAT 49 12 41 N LONG 099 44 36 W DRAINAGE AREA, 335 km² NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 3.60 AND 0 M3/S OCCURRED IN FEB

PEMBINA RIVER NEAR KILLARNEY - STATION NO. 05OA008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.63 B ON MAR 20	0 B ON MAR 01 *	6 070	1959
1960	---	13.1 ON APR 06	0 B ON MAR 01	21 000	1960
1961	---	4.87 B ON MAR 22	0 B ON MAR 01	3 200	1961
1962	---	16.2 ON JUN 18	0 B ON MAR 01	8 700	1962
1963	---	6.09 ON JUN 05	0 B ON MAR 01	7 490	1963
1964	---	8.41 ON APR 10	0 B ON MAR 01	9 520	1964
1965	---	10.7 ON APR 13	0 B ON MAR 01	15 500	1965
1966	---	5.01 ON JUL 04	0 B ON MAR 01	13 800	1966
1967	---	2.89 ON APR 29	0 B ON MAR 01	4 440	1967
1968	---	2.65 ON AUG 25	0 B ON MAR 01	4 650	1968
1969	39.1 AT 16:00 CST ON APR 12 *	38.0 R ON APR 11	0 B ON MAR 01	32 800	1969
1970	---	15.2 ON APR 27	0 B ON MAR 01	17 200	1970
1971	---	10.8 B ON APR 07	0 B ON MAR 01	13 000	1971
1972	---	15.9 B ON MAR 17	0 B ON MAR 01	29 100	1972
1973	---	9.00 ON JUN 19	0 B ON MAR 01	9 890	1973
1974	---	39.4 ON APR 21	0 ON JUL 25	46 700	1974
1975	---	37.1 ON APR 29	0.003 ON JUL 30	34 400	1975
1976	---	22.7 B ON APR 02	0 E ON JUL 23	30 200	1976
1977	---	0.623E ON MAY 19	0 ON AUG 29	1 530	1977
1978	---	3.40 E ON MAY 28	0 ON AUG 02	6 220	1978
1979	---	71.4 B ON APR 20 *	0 B ON MAR 01	23 900	1979
1980	---	3.34 B ON APR 05	0 B ON MAR 01	2 810	1980
1981	3.60B AT 13:10 CST ON FEB 23	0.690 ON AUG 04	0 ON JUL 28	2 660	1981
1982	11.1 AT 07:15 CST ON APR 14	10.5 ON APR 14	0 B ON MAR 01	9 200	1982
1983	6.38B AT 11:51 CST ON MAR 14	5.19 B ON MAR 14	0.001 ON JUL 27	8 440	1983
1984	2.61 AT 11:36 CST ON MAY 05	2.42 ON MAY 05	0 ON JUL 09	3 190	1984
1985	19.6 B AT 09:45 CST ON MAR 20	15.4 B ON MAR 20	0 B ON MAR 01	9 840	1985
1986	7.07 AT 12:24 CST ON MAY 07	6.48 ON MAY 07	0 B ON MAR 01	10 500	1986
1987	15.1 B AT 07:17 CST ON MAR 22	12.9 B ON MAR 22	0 B ON MAR 01	10 100	1987
1988	1.63B AT 01:49 CST ON APR 04	1.46 B ON APR 04	0 B ON MAR 01	895	1988
1989	13.5 AT 21:37 CST ON APR 02	10.3 ON APR 02	0 B ON MAR 01	4 500	1989
1990	3.95 AT 10:26 CST ON JUN 21	2.98 ON JUN 21	0 B ON MAR 01	1 920	1990
				12 600	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1989

PEMBINA RIVER NEAR LA RIVIERE - STATION NO. 05OB001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	0.717	3.22	3.83	3.88	2.10	2.98	1.60	0.686	0.346	0.036	---	1963
1964	0	0	0	5.45	7.13	1.85	0.488	0.653	0.441	0.326	0.211	0.023	1.38	1964
1965	0.002	0	0	8.70	15.0	10.0	3.20	1.45	1.67	1.84	1.17	0.603	3.65	1965
1966	0.165	0	2.71	15.9	12.5	4.31	4.23	1.47	0.369	0.088	0.067	0.022	3.75	1966
1967	0.047	0.081	0.438	7.88	11.1	4.61	0.954	0.286	0.119	0.075	0.092	0.032	2.15	1967
1968	0	0	1.53	1.89	1.65	0.803	0.508	2.97	10.2	9.47	4.00	1.23	2.85	1968
1969	0.282	0.334	0.680	89.1	37.8	11.9	6.72	3.60	2.35	1.47	1.12	0.532	12.9	1969
1970	0.249	0.114	0.089	16.2	39.4	22.5	13.6	4.90	2.64	1.91	1.04	0.199	8.61	1970
1971	0.021	0.014	0.015	30.8	27.5	9.32	7.75	6.48	3.38	2.01	1.13	0.558	7.44	1971
1972	0.524	0.099	2.92	25.6	18.1	6.91	4.77	4.04	2.49	1.33	0.769	0.064	5.62	1972
1973	0.003	0.002	0.515	1.90	1.18	0.797	1.42	1.47	1.24	1.73	0.880	0.611	0.951	1973
1974	0.250	0.310	0.579	70.5	76.4	35.6	9.10	2.39	1.49	0.746	0.392	0.178	16.5	1974
1975	0.110	0.016	0.024	4.92	33.1	13.0	4.97	1.74	0.930	0.668	0.348	0.186	5.04	1975
1976	0.216	1.74	0.687	68.0	38.2	10.2	2.19	0.826	0.479	0.259	0.106	0.021	10.2	1976
1977	0.013	0.013	0.037	0.158	0.925	0.303	0.046	0.007	0.221	0.085	0.033	0.022	0.156	1977
MEAN	0.134	0.195	0.727	23.3	21.6	9.27	4.14	2.35	1.97	1.48	0.780	0.288	5.80	MEAN

LOCATION - LAT 49 13 50 N
LONG 098 41 20 W
DRAINAGE AREA, 5 320 km^2
REGULATED

PEMBINA RIVER NEAR LA RIVIERE - STATION NO. 05OB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	4.87 ON MAY 03	0 B ON MAR 01 *	---	1963
1964	---	8.78 ON MAY 01	0 B ON JAN 01	43 700	1964
1965	---	16.0 ON MAY 05	0 B ON JAN 10	115 000	1965
1966	---	10.8 ON MAY 05	0 B ON JAN 28	119 000	1966
1967	---	21.3 ON APR 21	0 B ON DEC 24	67 800	1967
1968	---	13.5 ON SEP 23	0 B ON JAN 01	90 200	1968
1969	---	263 ON APR 18	0.221B ON JAN 08	408 000	1969
1970	47.6 AT 20:30 CST ON MAY 15	47.0 ON MAY 15	0.057B ON DEC 31	272 000	1970
1971	---	67.7 ON APR 24	0.011B ON MAR 10	235 000	1971
1972	---	37.4 B ON APR 10	0.006B ON DEC 31	178 000	1972
1973	4.84 AT 09:24 CST ON JUL 08	4.73 ON JUL 08	0.001B ON FEB 10	30 000	1973
1974	306 AT 07:51 CST ON APR 25 *	303 ON APR 25 *	0.142B ON FEB 03	521 000	1974
1975	48.7 AT 12:00 CST ON MAY 11	48.1 ON MAY 11	0.009B ON FEB 16	159 000	1975
1976	114 AT 13:15 CST ON APR 14	113 ON APR 14	0.014B ON DEC 28	322 000	1976
1977	8.55 AT 10:02 CST ON MAY 19	6.34 ON MAY 19	0 ON JUL 25	4 920	1977
				183 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NEAR MANITOU - STATION NO. 05CB003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1921	---	---	---	---	3.92	1.26	3.25	0.284	0.326	0.475	---	---	---	1921
1922	---	---	---	7.48	4.57	1.52	0.314	0.243	0.318	---	---	---	---	1922
1923	---	---	---	20.1	22.7	4.55	1.86	2.40	---	---	---	---	---	1923
1924	---	---	---	---	2.73	2.01	0.557	---	---	---	---	---	---	1924
1925	---	---	3.68	7.52	4.35	2.48	1.25	1.06	---	---	---	---	---	1925
1926	---	---	---	---	1.01	0.600	0.455	0.332	---	---	---	---	---	1926
1927	---	---	---	15.8	13.0	10.6	5.77	5.94	8.48	5.96	---	---	---	1927
1928	---	---	4.37	6.44	3.97	2.52	1.15	0.781	---	---	---	---	---	1928
1929	---	---	---	2.35	2.40	0.728	0.372	0.047	0.027	0.087	---	---	---	1929
1930	---	---	---	14.8	9.36	3.63	0.850	0.478	0.492	0.668	---	---	---	1930
1931	---	---	---	3.43	1.70	0.535	0.138	0.016	0.017	0.029	---	---	---	1931
1932	---	---	---	6.52	3.24	1.03	0.469	---	---	---	---	---	---	1932
1933	---	---	0.312	15.1	11.5	5.57	1.32	0.642	1.11	1.11	---	---	---	1933
1934	---	---	---	6.60	3.15	1.16	0.233	0.011	0.006	0.012	---	---	---	1934
1935	---	---	---	1.75	1.08	0.939	0.806	0.886	0.465	0.341	---	---	---	1935
1936	---	---	0	10.7	9.85	4.31	1.17	0.453	0.567	0.471	---	---	---	1936
1937	---	---	0	1.10	0.787	0.719	0.101	0.024	0.002	0.007	---	---	---	1937
1938	---	---	1.84	2.29	1.71	0.620	0.149	0.053	0.003	0.013	---	---	---	1938
1939	---	---	0.038	0.302	0.113	0.036	0.005	0	0	0	---	---	---	1939
1940	---	---	0	0.481	0.099	0.013	0.002	0.098	0.007	0	---	---	---	1940
1941	---	---	0	14.7	7.52	2.39	0.681	0.703	1.05	1.05	---	---	---	1941
1942	---	---	1.56	29.0	18.3	5.90	1.71	1.36	1.15	0.847	---	---	---	1942
1943	---	---	1.99	9.48	6.06	3.18	2.77	5.80	4.54	2.89	---	---	---	1943
1944	---	---	---	3.21	4.41	5.12	22.3	17.4	8.81	4.15	3.54	---	---	1944
1945	---	---	11.3	24.1	14.8	7.80	5.62	2.70	1.81	1.20	---	---	---	1945
1946	---	---	8.77	12.9	5.11	1.73	1.01	0.493	0.310	0.392	0.283	---	---	1946
1947	---	---	---	9.19	5.92	2.40	1.02	1.45	1.29	0.943	---	---	---	1947
1948	---	---	---	9.47	16.6	7.44	4.50	3.92	2.43	1.16	---	---	---	1948
1949	---	---	---	58.8	30.8	13.3	5.49	2.64	1.50	0.862	---	---	---	1949
1950	---	---	---	19.0	27.4	24.8	12.3	8.43	4.84	3.03	---	---	---	1950
1951	---	---	---	13.5	11.3	7.50	2.24	1.03	0.536	0.206	---	---	---	1951
1952	---	---	---	5.80	4.52	2.33	0.814	0.200	0.018	0.023	0.001	---	---	1952
1953	---	---	---	1.26	0.577	5.66	1.60	0.678	0.174	0.069	0.063	---	---	1953
1954	---	---	---	1.06	0.681	9.01	17.8	8.29	3.86	2.05	1.18	---	---	1954
1955	---	---	0.311	30.2	17.4	9.11	5.13	1.70	0.630	0.437	---	---	---	1955
1956	---	---	---	13.6	45.1	15.0	6.61	3.68	2.66	2.21	0.744	0.114	---	1956
1957	0.090	0.037	2.58	5.99	3.31	1.96	0.597	1.17	2.63	---	---	---	---	1957
MEAN	0.090	0.037	2.45	11.3	8.94	4.47	3.04	2.15	1.61	1.06	0.969	0.114	---	MEAN

LOCATION - LAT 49 08 50 N DRAINAGE AREA, 5 600 km²
LONG 098 33 45 W REGULATED

PEMBINA RIVER NEAR MANITOU - STATION NO. 05CB003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1921	---	21.4 CN JUL 04	---	---	1921
1922	---	19.3 E CN APR 04	---	---	1922
1923	---	60.5 E CN APR 19	---	---	1923
1924	---	---	---	---	1924
1925	---	24.6 E CN MAR 26	---	---	1925
1926	---	1.53 CN APR 24	---	---	1926
1927	---	25.2 CN APR 13	---	---	1927
1928	---	16.4 E CN MAR 24	---	---	1928
1929	---	5.24 CN APR 18	---	---	1929
1930	---	28.6 E CN APR 06	---	---	1930
1931	---	8.07E CN APR 06	---	---	1931
1932	---	18.4 E CN APR 08	---	---	1932
1933	---	---	---	---	1933
1934	---	11.2 E CN APR 07	0 CN OCT 01 *	---	1934
1935	---	4.81E CN APR 13	---	---	1935
1936	---	---	---	---	1936
1937	---	---	---	---	1937
1938	---	---	---	---	1938
1939	---	---	---	---	1939
1940	---	---	---	---	1940
1941	---	---	---	---	1941
1942	---	---	---	---	1942
1943	---	---	---	---	1943
1944	---	34.5 CN JUL 20	---	---	1944
1945	---	---	---	---	1945
1946	---	---	---	---	1946
1947	---	14.6 CN APR 04	---	---	1947
1948	---	33.7 CN APR 21	---	---	1948
1949	---	142 CN APR 17 *	---	---	1949
1950	---	75.3 B CN APR 17	---	---	1950
1951	---	18.4 CN APR 05	---	---	1951
1952	---	15.7 B CN APR 01	0 CN SEP 13	---	1952
1953	---	8.10 CN JUN 05	---	---	1953
1954	---	27.0 CN JUL 01	---	---	1954
1955	---	---	---	---	1955
1956	---	70.2 CN MAY 01	---	---	1956
1957	---	12.7 B CN MAR 23	---	---	1957
				---	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

PEMBINA RIVER NEAR OUTLET OF SWAN LAKE - STATION NO. 05OB019

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	2.07	4.72	4.34	2.61	2.62	1.68	0.620	---	---	2.33	1962
1963	---	---	0.245	3.01	4.20	4.11	2.38	2.39	1.55	0.336	---	---	2.30	1963
1964	---	---	0	5.06	8.03	3.00	3.79	2.53	0.838	0.257	---	---	2.94	1964
1965	---	---	0	8.24	16.2	8.76	2.27	1.92	2.01	1.45	---	---	5.09	1965
1966	---	---	1.37	13.6	10.1	4.78	2.55	0.942	0.121	0.120	---	---	4.16	1966
1967	---	---	0.006	5.26	11.5	4.06	1.13	0.081	0.040	0.020	---	---	2.75	1967
1968	---	---	0.370	1.52	0.651	0.428	0.495	1.57	10.5	7.87	---	---	2.91	1968
1969	---	---	0	81.7	42.7	11.0	5.17	3.26	1.93	0.948	---	---	18.2	1969
1970	---	---	0.055	12.4	36.7	24.9	14.7	5.43	2.33	1.58	---	---	12.2	1970
1971	---	---	0.042	31.7	26.6	6.71	8.30	6.89	2.78	1.82	---	---	10.6	1971
1972	---	---	4.34	23.0	18.6	6.75	5.89	---	---	---	---	---	---	1972
MEAN	---	---	0.584	17.0	16.4	7.17	4.48	2.76	2.38	1.52	---	---	6.35	MEAN

LOCATION - LAT 49 21 17 N LONG 098 49 04 W DRAINAGE AREA, 4 980 km² REGULATED

PEMBINA RIVER NEAR OUTLET OF SWAN LAKE - STATION NO. 05OB019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---				
1963	---	7.14 ON APR 24	0 B ON MAR 01 *	49 200	1962
1964	---	5.66 ON MAY 02	0 B ON MAR 01	48 600	1963
		9.91 ON MAY 07	0 B ON MAR 01	62 200	1964
1965	---				
1966	---	19.2 ON MAY 18	0 B ON MAR 01	108 000	1965
1967	---	16.5 ON APR 28	0 B ON MAR 01	88 100	1966
1968	---	16.7 ON MAY 07	0 B ON MAR 01	58 300	1967
1969	---	12.7 ON SEP 20	0 B ON MAR 01	61 700	1968
		289 ON APR 17 *	0 B ON MAR 01	385 000	1969
1970	---	44.2 ON MAY 12			
1971	---	65.1 ON APR 18	0.028B ON MAR 01	259 000	1970
1972	---	25.4 ON APR 16	0.034B ON MAR 01	224 000	1971
			0 B ON MAR 01	---	1972
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		134 000	MEAN

PEMBINA RIVER NEAR WINDYGATES - STATION NO. 05OB007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	0.009	0.002	0.029	11.9	5.80	4.41	1.55	2.19	2.72	1.99	0.480	0.662	2.57	1962
1963	0.280	0	1.16	3.82	4.71	5.16	2.73	2.77	1.72	0.773	0.327	0.095	1.97	1963
1964	0.023	0	0	6.56	8.01	3.41	1.01	1.26	0.968	0.653	0.227	0.032	1.84	1964
1965	0	0	0	13.0	18.3	10.8	3.54	1.60	2.28	1.79	1.14	0.836	4.46	1965
1966	0.347	0.064	4.06	29.2	19.7	8.03	3.75	1.87	0.733	0.307	0.181	0.076	5.70	1966
1967	0.133	0.098	0.878	16.9	18.5	6.07	1.80	0.466	0.017	0.489	0.263	0.083	3.82	1967
1968	0.013	0	7.48	3.66	1.98	0.869	0.525	1.18	9.21	9.71	4.83	1.28	3.57	1968
1969	0.543	0.405	0.441	88.1	43.6	13.5	8.20	4.36	2.42	1.71	1.20	0.636	13.7	1969
1970	0.424	0.355	0.342	31.0	52.9	30.4	17.9	7.38	3.70	2.15	1.21	0.409	12.4	1970
1971	0.268	0.273	0.322	57.3	36.8	13.2	9.73	8.27	4.01	2.30	1.63	1.06	11.3	1971
1972	0.531	0.395	7.67	34.1	21.9	8.89	5.59	4.66	2.76	2.05	0.907	0.143	7.46	1972
1973	0.081	0.095	1.60	2.11	1.40	0.937	1.30	1.44	1.28	1.44	0.924	0.519	1.09	1973
1974	0.248	0.321	0.335	85.0	102	42.8	10.4	3.29	2.17	1.25	0.946	0.372	20.8	1974
1975	0.185	0.106	0.194	7.27	33.3	15.5	5.39	2.04	0.994	0.843	0.594	0.254	5.59	1975
1976	0.328	1.26	1.16	74.5	36.9	10.7	3.24	1.21	0.715	0.548	0.248	0.006	10.8	1976
1977	0	0	0.082	0.602	0.981	0.535	0.141	0.009	0.093	0.242	0.067	0.023	0.232	1977
1978	0.007	0	0.068	17.4	10.4	3.19	1.36	0.869	0.657	0.342	0.151	0.076	2.88	1978
1979	0.027	0.007	0.030	38.3	83.1	21.1	5.51	1.43	1.29	1.11	0.813	0.266	12.8	1979
1980	0.053	0.019	0.038	4.22	2.17	0.646	0.044	0.040	0.028	0.052	0.132	0.073	0.623	1980
1981	0	0.170	1.47	5.38	2.79	0.759	0.305	0.092	0.034	0.074	0.087	0.023	0.931	1981
1982	0	0	0.337	12.1	16.7	12.9	5.30	2.59	1.31	1.19	0.545	0.199	4.44	1982
1983	0.101	0.027	1.27	19.4	12.1	4.96	1.74	0.397	0.139	0.287	0.166	0.050	3.39	1983
1984	0.001	0.005	0.208	1.96	2.21	2.75	0.389	0.026	0.002	0.020	0.022	0.005	0.631	1984
1985	0	0	9.07	18.9	5.62	2.68	1.39	0.512	0.683	0.857	0.444	0.149	3.36	1985
1986	0.176	0.086	7.94	18.5	17.3	8.60	3.29	2.41	1.41	0.698	0.278	0.137	5.09	1986
1987	0.118	0.084	0.148	43.9	19.4	4.96	1.45	1.05	1.52	1.41	0.685	0.432	6.25	1987
1988	0.007	0.005	0.498	1.87	0.765	0.114	0.002	0	0	0	0	0	0.271	1988
1989	0	0	0	3.38	2.06	0.730	0.035	0	0	0	0	0	0.516	1989
1990	0	0	0.462	6.52	2.44	2.49	0.835	0.028	0.003	0.002	0.001	0	1.06	1990
MEAN	0.135	0.130	1.63	22.6	20.1	8.31	3.39	1.91	1.48	1.15	0.634	0.269	5.16	MEAN

LOCATION - LAT 49 01 53 N LONG 098 16 40 W DRAINAGE AREA, 7 510 km² REGULATED INTERNATIONAL GAUGING STATION

PEMBINA RIVER NEAR WINDYGATES - STATION NO. 05OB007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	45.6 ON APR 21	0 B ON FEB 21 *	81 000	1962
1963	---	7.22 ON JUN 06	0 B ON JAN 29	62 100	1963
1964	---	9.15 ON MAY 10	0 B ON JAN 20	58 300	1964
1965	---	39.1 B ON APR 14	0 B ON JAN 01	141 000	1965
1966	---	48.1 B ON APR 03	0.045B ON NOV 30	180 000	1966
1967	53.3 AT 09:00 CST ON APR 21	49.0 ON APR 21	0 ON SEP 11	120 000	1967
1968	21.1 B AT 07:20 CST ON MAR 24	18.7 B ON MAR 24	0 B ON JAN 23	113 000	1968
1969	231 AT 16:06 CST ON APR 19	220 ON APR 19	0.385B ON MAR 05	433 000	1969
1970	108 AT 09:53 CST ON APR 28	104 ON APR 28	0.204B ON DEC 31	391 000	1970
1971	---	167 B ON APR 10	0.190B ON JAN 01	155 000	1971
1972	---	45.9 B ON APR 12	0.054B ON DEC 31	236 000	1972
1973	4.11 AT 17:19 CST ON AUG 08	2.94 ON JUL 12	0.028B ON JAN 08	34 400	1973
1974	326 AT 11:30 CST ON APR 26 *	317 ON APR 26 *	0.170B ON JAN 14	657 000	1974
1975	42.8 AT 14:30 CST ON MAY 14	42.2 ON MAY 14	0.068B ON FEB 05	176 000	1975
1976	119 AT 00:36 CST ON APR 17	116 ON APR 17	0 B ON DEC 07	343 000	1976
1977	4.53 AT 19:13 CST ON MAY 21	3.91 ON MAY 21	0 B ON JAN 01	7 320	1977
1978	---	30.9 B ON APR 09	0 B ON JAN 19	90 800	1978
1979	154 AT 17:58 CST ON MAY 02	152 ON MAY 02	0.002B ON FEB 12	404 000	1979
1980	---	9.25B ON APR 06	0 B ON DEC 26	19 700	1980
1981	14.3 AT 22:02 CST ON MAY 22	8.12 ON MAY 23	0 B ON JAN 01	29 300	1981
1982	54.1 AT 16:55 CST ON JUN 06	44.9 ON JUN 06	0 B ON JAN 01	140 000	1982
1983	32.4 AT 00:00 CST ON APR 08	28.7 ON APR 08	0.004B ON DEC 11	107 000	1983
1984	13.9 AT 02:31 CST ON JUN 16	8.61 ON JUN 16	0 B ON JAN 02	20 000	1984
1985	34.5 AT 13:29 CST ON APR 05	32.5 ON APR 05	0 B ON JAN 01	106 000	1985
1986	34.9 AT 21:32 CST ON MAR 28	32.4 ON MAR 29	0.019B ON FEB 10	161 000	1986
1987	72.9 AT 11:29 CST ON APR 08	69.2 ON APR 08	0.035B ON MAR 02	197 000	1987
1988	5.05B AT 08:32 CST ON APR 04	4.02B ON APR 04	0 B ON JAN 12	8 560	1988
1989	12.9 AT 01:06 CST ON APR 16	10.8 ON APR 16	0 B ON JAN 01	16 300	1989
1990	22.5 AT 18:22 CST ON APR 03	18.3 ON APR 04	0 ON JAN 01	33 500	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		163 000	MEAN

PEMBINA RIVER NORTH OF KILLARNEY - STATION NO. 05OA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1921	---	---	---	---	0.072	0.051	0.005	0	0.006	---	---	---	---	1921
1925	---	---	---	1.20	0.245	2.34	---	---	---	---	---	---	---	1925
1926	---	---	---	---	---	---	---	---	---	0.077	---	---	---	1926
1927	---	---	5.29	3.34	6.52	1.89	1.64	0.423	0.057	0.082	0.042	---	---	1927
1928	---	---	1.98	0.457	0.206	1.82	4.29	0.199	0.069	---	---	---	---	1928
MEAN	---	---	3.64	1.67	1.76	1.53	1.98	0.207	0.044	0.080	0.042	---	---	MEAN

LOCATION - LAT 49 13 45 N
LONG 099 38 50 W
DRAINAGE AREA, 418 km^2
NATURAL FLOW

PEMBINA RIVER NORTH OF KILLARNEY - STATION NO. 05OA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1921	---	---	0 E ON JUL 09 *	---	1921
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1927	---	22.6 ON MAY 13 *	0.003 ON SEP 23	---	1927
1928	---	13.7 ON JUL 10	---	---	1928
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

PIGEON RIVER AT OUTLET OF ROUND LAKE - STATION NO. 05RD008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	181	129	76.1	43.1	28.7	22.9	---	1957
1958	21.8	22.1	21.1	22.5	31.5	62.0	90.1	93.6	82.2	65.0	60.7	84.0	55.6	1958
1959	74.1	54.7	27.8	25.1	177	345	248	149	101	74.8	95.8	83.4	122	1959
1960	65.2	49.1	34.7	32.2	65.7	136	130	87.8	70.1	72.2	62.8	53.2	71.7	1960
1961	49.0	43.0	35.0	34.0	53.0	89.7	79.8	52.4	27.9	41.2	41.0	27.7	44.7	1961
1962	27.2	25.2	29.7	24.7	28.5	96.9	146	99.3	70.7	80.6	78.3	73.7	67.0	1962
1963	65.4	33.9	41.8	37.7	81.3	207	190	116	67.4	39.6	31.3	28.6	80.1	1963
1964	27.8	27.1	25.6	25.3	65.5	181	141	85.6	61.3	50.4	57.8	63.9	67.8	1964
1965	61.6	54.4	36.8	38.2	55.2	161	195	133	102	96.6	97.8	84.4	93.2	1965
1966	71.3	58.9	45.8	44.9	79.1	190	236	180	105	59.9	44.5	44.6	96.9	1966
1967	45.9	44.9	39.5	42.7	71.5	176	215	125	66.3	41.7	32.3	27.2	77.6	1967
1968	25.1	24.6	22.6	29.6	47.6	103	225	224	196	198	183	153	120	1968
1969	109	79.0	56.4	61.6	80.7	169	182	218	230	295	262	181	161	1969
1970	117	69.9	52.1	44.2	53.6	73.1	138	107	80.9	66.2	74.2	106	82.1	1970
1971	112	80.4	54.8	54.7	140	205	134	109	106	81.2	59.3	53.5	99.3	1971
1972	55.4	54.3	44.3	52.3	104	186	142	81.8	55.1	50.2	49.7	64.2	77.4	1972
1973	55.9	44.1	37.2	43.6	73.5	123	122	86.5	68.6	78.0	103	122	80.3	1973
1974	90.4	67.9	54.6	56.0	122	254	227	130	110	152	127	85.3	123	1974
1975	63.0	51.0	41.0	41.4	66.4	157	195	168	148	125	87.8	59.6	100	1975
1976	47.6	40.8	34.5	56.1	74.1	93.1	77.1	47.6	29.2	79.3	14.4	11.5	45.4	1976
1977	10.1	10.1	11.2	14.4	16.4	35.3	55.8	54.5	118	176	141	95.5	61.7	1977
1978	64.9	43.7	32.3	36.6	61.3	106	158	191	107	181	112	94.8	108	1978
1979	73.4	56.7	43.9	54.0	135	300	199	108	88.6	78.1	76.3	74.0	107	1979
1980	70.4	55.8	42.2	44.9	57.2	90.3	89.3	61.6	61.2	48.2	42.4	47.5	59.3	1980
1981	45.1	34.5	30.6	34.0	40.0	61.1	111	101	74.8	62.6	68.5	70.9	62.3	1981
1982	72.1	57.7	44.3	54.0	114	216	207	144	94.5	74.4	53.8	45.1	98.0	1982
1983	41.6	35.9	32.2	35.0	58.7	90.2	123	127	87.8	55.4	36.4	25.8	62.7	1983
1984	27.4	28.8	25.4	36.6	58.4	117	147	109	70.5	57.4	58.6	67.8	67.2	1984
1985	68.1	58.1	48.2	---	---	---	186	212	169	158	125	102	---	1985
1986	84.2	61.3	46.8	67.7	149	226	141	81.8	---	---	---	---	---	1986
1987	65.4	56.7	49.1	64.7	135	146	97.9	65.7	53.0	33.7	25.7	19.9	67.3	1987
1988	12.2	9.99	12.7	18.5	33.1	52.0	67.6	46.5	31.5	24.9	19.1	18.7	29.0	1988
1989	20.3	21.5	20.7	20.5	29.7	61.6	116	110	84.0	63.7	51.3	39.3	53.5	1989
1990	34.3	32.3	31.6	50.1	129	242	185	106	63.3	39.7	28.6	25.4	80.8	1990
MEAN	57.1	46.1	36.6	40.5	77.6	148	152	116	92.0	83.8	73.9	65.6	81.4	MEAN

LOCATION - LAT 52 01 49 N
LONG 096 23 37 W NATURAL FLOW

PIGEON RIVER AT OUTLET OF ROUND LAKE - STATION NO. 05RD008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	96.6 ON AUG 11	20.2 ON MAR 27	1 750 000	1958
1959	---	179 ON JUN 09 *	18.7 ON APR 09	3 840 000	1959
1960	---	155 ON JUN 23	27.5 ON APR 19	2 270 000	1960
1961	---	95.1 ON JUN 16	20.2 ON NOV 05	1 410 000	1961
1962	---	159 ON JUL 08	19.7 ON MAY 01	2 110 000	1962
1963	---	224 ON JUN 21	28.6 ON DEC 01	2 530 000	1963
1964	---	194 ON JUN 11	25.3 ON MAR 19	2 140 000	1964
1965	---	216 ON JUL 03	33.1 A ON MAR 20	2 940 000	1965
1966	255 AT 16:30 CST ON JUL 04	250 ON JUL 04	37.6 R ON APR 11	3 060 000	1966
1967	---	255 A ON JUL 01	25.8 R ON DEC 30	2 450 000	1967
1968	---	238 ON JUL 21	20.4 R ON APR 06	2 790 000	1968
1969	---	306 E ON OCT 17	43.9 ON APR 07	5 070 000	1969
1970	156 AT 07:46 CST ON JAN 01	153 ON JAN 01	39.2 ON APR 13	2 590 000	1970
1971	---	224 A ON JUN 03	45.6 E ON APR 06	3 130 000	1971
1972	202 AT 15:23 CST ON JUN 13	200 ON JUN 13	16.1 R ON NOV 06	2 450 000	1972
1973	151 AT 16:30 CST ON JUN 25	151 ON JUN 30	34.3 E ON APR 09	2 530 000	1973
1974	300 AT 11:30 CST ON JUN 25	297 ON JUN 23	41.5 R ON APR 15	3 890 000	1974
1975	206 AT 12:14 CST ON JUN 30	206 ON JUN 30	35.0 R ON APR 12	3 170 000	1975
1976	101 AT 21:10 CST ON JUN 27	100 ON JUN 28	10.9 R ON DEC 30	1 440 000	1976
1977	182 AT 11:39 CST ON OCT 17	182 ON OCT 14	9.74 ON JAN 19	1 950 000	1977
1978	197 AT 00:42 CST ON AUG 08	197 ON AUG 07	29.3 E ON APR 07	3 400 000	1978
1979	318 AT 21:45 CST ON JUN 14 *	317 ON JUN 14	38.1 ON APR 13	3 380 000	1979
1980	101 AT 14:47 CST ON JUN 22	101 ON JUN 21	30.0 E ON APR 04	1 870 000	1980
1981	119 AT 21:44 CST ON JUL 30	119 ON JUL 31	29.1 ON MAR 25	1 960 000	1981
1982	139 AT 17:42 CST ON JUN 27	251 E ON JUN 26	19.6 E ON APR 25	3 090 000	1982
1983	153 AT 04:08 CST ON JUL 22	139 ON JUN 27	24.3 E ON DEC 24	1 980 000	1983
1984	---	151 ON JUL 22	24.4 E ON MAR 18	2 130 000	1984
1985	226 AT 13:19 CST ON AUG 06	225 ON AUG 06	43.0 ON APR 02	---	1985
1986	250 AT 18:32 CST ON JUN 11	249 ON JUN 11	---	---	1986
1987	---	156 E ON MAY 26	18.1 E ON DEC 27	2 120 000	1987
1988	72.0 AT 11:46 CST ON JUL 19	71.5 E ON JUL 15	9.20E ON FEB 22 *	917 000	1988
1989	123 AT 23:59 CST ON JUL 17	122 ON JUL 17	18.2 E ON APR 14	1 690 000	1989
1990	---	257 ON JUN 13	23.8 E ON DEC 31	2 550 000	1990
				2 570 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1989

PILOT CREEK NEAR PILOT MOUND - STATION NO. 05OB025

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	0	0.031	0.007	0.085	0	0	0	0	---	---	0.015	1963
1964	---	---	0	0.421	0.028	0	0	0	0	0	---	---	0.055	1964
1965	---	---	0	0.584	0.122	0.008	0	0	0	0	---	---	0.088	1965
1966	---	---	0.451	0.824	0.253	0.014	0.034	0.003	0	0	---	---	0.196	1966
1967	---	---	0.004	0.601	0.311	0	0	0	0.052	0	---	---	0.120	1967
1968	---	---	0.194	0.109	0.017	0.007	0.029	0.285	0.330	0.075	---	---	0.131	1968
1969	---	---	0	4.65	0.520	0.409	0.332	0.003	0.021	0	---	---	0.731	1969
1970	---	---	0	1.69	1.05	0.336	0.041	0.002	0.026	0	---	---	0.390	1970
1971	---	---	0	1.30	0.312	0.152	0.250	0.013	0.159	0.057	---	---	0.277	1971
1972	---	---	0.549	1.11	0.426	0.066	0.012	0.016	0.003	0.001	---	---	0.271	1972
1973	---	---	0.015	0.006	0.011	0.003	0	0	0	0	---	---	0.004	1973
1974	---	---	0	3.75	2.62	0.389	0.017	0.001	0.001	0.001	---	---	0.841	1974
1975	---	---	0	0.410	0.203	0.044	0.004	0	0	0	---	---	0.082	1975
1976	---	---	0	2.19	0.178	0.003	0	0.001	0.002	0.004	---	---	0.291	1976
1977	---	---	0.001	0.002	0	0	0	0.002	0.002	0.001	---	---	0.001	1977
1978	---	---	0	0.430	0.042	0.001	0.001	0.001	0.001	0.001	---	---	0.059	1978
1979	---	---	0	2.58	0.886	0.038	0.003	0	0	0.001	---	---	0.434	1979
1980	---	---	0	0.050	0	0	0.005	0	0	0	---	---	0.007	1980
1981	---	---	0.119	0.004	0.002	0.009	0.003	0.004	0.003	0	---	---	0.018	1981
1982	---	---	0.033	0.295	0.013	0	0	0.010	0	0	---	---	0.043	1982
1983	---	---	0.227	0.283	0.001	0.001	0.007	0	0	0	---	---	0.065	1983
1984	---	---	0.001	0.024	0.006	0.003	0.013	0.007	0.002	0.001	---	---	0.007	1984
1985	---	---	0.670	0.488	0.030	0	0	0	0	0	---	---	0.148	1985
1986	---	---	0.304	0.391	0.114	0	0.002	0	0.015	0	---	---	0.103	1986
1987	---	---	0	1.61	0.064	0.002	0	0	0	0	---	---	0.206	1987
1988	---	---	0.007	0.017	0	0	0.004	0	0	0	---	---	0.004	1988
1989	---	---	0	0.082	0.010	0	0.001	0.035	0	0.011	---	---	0.017	1989
1990	---	---	0.013	0.456	0.031	0.021	0.001	0.012	0	0	---	---	0.066	1990
MEAN	---	---	0.092	0.871	0.259	0.057	0.027	0.014	0.022	0.006	---	---	0.167	MEAN

LOCATION - LAT 49 12 34 N DRAINAGE AREA, 154 km²
LONG 098 57 06 W REGULATED

PILOT CREEK NEAR PIVOT MOUND - STATION NO. 05OB025

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	0.374 ON JUN 06	0B ON MAR 01 *	319	1963
1964	---	0.748 ON APR 09	0B ON MAR 01	1 170	1964
1965	---	1.69 B ON APR 12	0B ON MAR 01	1 860	1965
1966	---	1.82 B ON APR 01	0B ON MAR 01	4 160	1966
1967	---	1.43 ON APR 21	0B ON MAR 01	2 530	1967
1968	---	1.70 ON AUG 24	0B ON MAR 01	2 760	1968
1969	---	15.0 B ON APR 11	0B ON MAR 01	15 500	1969
1970	---	3.94 ON APR 25	0B ON MAR 01	8 250	1970
1971	---	4.53 ON APR 08	0B ON MAR 01	5 860	1971
1972	---	2.28 ON APR 12	0B ON MAR 01	5 740	1972
1973	---	0.048 ON MAY 10	0B ON MAR 01	93.2	1973
1974	---	22.7 ON APR 21 *	0B ON MAR 01	17 800	1974
1975	---	1.29 ON APR 29	0B ON MAR 01	1 730	1975
1976	---	5.32 ON APR 06	0B ON MAR 01	6 170	1976
1977	---	0.024 ON AUG 09	0B ON MAR 01	21.8	1977
1978	---	1.72 B ON APR 06	0B ON MAR 01	1 240	1978
1979	---	14.3 ON APR 23	0B ON MAR 01	9 180	1979
1980	---	0.377B ON APR 07	0B ON MAR 01	143	1980
1981	---	0.524 ON MAR 17	0B ON MAR 01	386	1981
1982	1.35 AT 19:13 CST ON APR 12	1.47 ON APR 12	0B ON MAR 01	917	1982
1983	2.20 AT 09:00 CST ON JUL 27	1.47 B ON APR 01	0B ON MAR 01	1 370	1983
1984	2.92 AT 09:16 CST ON AUG 15	0.361 ON APR 10	0B ON MAR 01	151	1984
1985	3.72B AT 05:29 CST ON MAR 23	3.09 B ON MAR 23	0B ON MAR 01	3 140	1985
1986	3.02B AT 22:26 CST ON MAR 22	1.41 B ON MAR 22	0B ON MAR 01	2 180	1986
1987	5.56B AT 03:48 CST ON APR 06 *	7.49 B ON APR 06	0B ON MAR 01	4 360	1987
1988	2.01 AT 09:19 CST ON JUL 06	0.125 ON JUL 06	0B ON MAR 01	75.2	1988
1989	---	1.04 B ON APR 16	0B ON MAR 01	369	1989
1990	3.25B AT 21:03 CST ON APR 02	2.30 B ON APR 01	0B ON MAR 01	1 390	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		3 530	MEAN

PINAWA CHANNEL BELOW CONTROL DAM - STATION NO. 05PF049

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1908	---	---	---	---	176	157	157	158	160	162	---	---	162	1908
1909	---	---	---	---	183	150	156	148	157	175	---	---	162	1909
1910	---	---	---	---	312	270	167	159	159	175	---	---	207	1910
1911	---	---	---	---	246	262	272	276	272	233	---	---	260	1911
1912	---	---	---	---	270	283	---	---	---	---	---	---	---	1912
1914	---	---	---	---	---	294	299	290	275	272	---	---	---	1914
1915	---	---	---	---	---	294	299	296	267	258	260	---	---	1915
MEAN	---	---	---	---	237	244	225	221	215	213	260	---	198	MEAN

LOCATION - LAT 50 09 45 N
LONG 095 52 05 W
REGULATED

DATA CONTRIBUTED BY -
CITY OF WINNIPEG HYDRO-ELECTRIC SYSTEM

PINAWA CHANNEL BELOW CONTROL DAM - STATION NO. 05PF049

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1908	---	---	---	---	1908
1909	---	199 ON MAY 01 214 ON MAY 14	153 ON JUN 09 123 ON AUG 08 *	2 570 000 2 570 000	1909
1910	---	---	---	---	1910
1911	---	317 ON MAY 15 *	156 ON AUG 13	3 290 000	1911
1912	---	276 ON JUL 20	200 ON OCT 20	4 130 000	1912
1914	---	---	---	---	1914
1915	---	---	---	---	1915
		---	---	---	
		---	---	---	
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		3 240 000	MEAN

PINE CREEK DIVERSION NEAR PINEY - STATION NO. 05OD027

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1953	---	---	---	---	---	---	---	---	---	---	---	---	---	1953
1958	---	---	---	---	---	---	---	---	---	0.385	0.376	0.467	---	1958
1959	0.189	0.160	0.868	1.89	2.16	1.15	0.798	0.441	0.348	1.53	0.628	0.263	0.872	1959
1960	0.167	0.196	0.635	3.32	1.18	1.37	0.436	0.312	0.163	0.361	0.568	0.177	0.737	1960
1961	0.082	0.144	0.265	1.19	0.959	0.254	0.251	0.095	0.259	0.479	0.319	0.125	0.369	1961
1962	0.013	0.049	0.249	2.11	3.77	1.16	0.127	0.107	0.257	0.214	0.215	0.214	0.891	1962
1963	0.058	0.093	1.63	2.78	1.26	1.18	0.247	0.135	0.141	0.193	0.400	0.148	0.855	1963
1964	0.065	0.014	0.117	1.64	2.10	1.59	0.656	0.230	0.672	1.02	0.386	0.179	0.722	1964
1965	0.120	0.106	0.066	1.97	3.35	1.25	2.27	0.343	1.06	1.54	0.685	0.428	1.11	1965
1966	0.178	0.144	0.197	3.44	3.05	0.541	0.591	0.339	0.429	0.537	0.292	0.223	0.832	1966
1967	0.198	0.052	0.509	4.56	1.61	0.453	0.169	0.262	0.153	0.397	0.241	0.238	0.738	1967
1968	0.315	0.241	0.863	.74	1.24	2.32	2.38	1.76	1.45	0.799	0.638	0.174	1.16	1968
1969	0.202	0.220	0.242	.84	1.06	1.77	0.619	0.362	0.338	0.586	0.342	0.373	0.826	1969
1970	0.279	0.223	0.285	2.31	4.38	1.59	0.262	0.174	0.364	0.476	0.616	0.291	0.940	1970
1971	0.104	0.157	0.227	1.56	1.28	0.812	0.395	0.237	0.227	0.408	0.593	0.224	0.609	1971
1972	0.163	0.113	0.090	1.78	1.09	0.201	0.113	0.175	0.424	0.375	0.371	0.126	0.417	1972
1973	0.178	0.174	0.713	0.672	1.523	0.640	0.234	0.281	0.641	0.600	0.403	0.238	0.442	1973
1974	0.144	0.196	0.200	3.01	2.57	0.602	0.124	0.632	0.386	0.493	0.337	0.212	0.744	1974
1975	0.234	0.281	0.281	2.33	1.33	1.42	0.493	0.221	0.280	0.298	0.245	0.154	0.627	1975
1976	0.173	0.199	0.570	2.03	0.443	0.905	0.293	0.211	0.120	0.154	0.126	0.108	0.428	1976
1977	0.100	0.113	0.424	0.872	0.865	0.293	0.277	0.152	0.748	0.526	0.575	0.299	0.438	1977
1978	0.222	0.192	0.198	2.78	0.751	0.229	0.277	0.229	0.308	0.278	0.221	0.151	0.484	1978
1979	0.141	0.168	0.267	3.35	1.49	0.635	0.273	0.181	0.173	0.179	0.27[illegible]	0.182	0.608	1979
1980	0.169	0.160	0.163	1.22	0.296	0.147	0.150	0.192	0.369	0.435	0.243	0.155	0.307	1980
1981	0.123	0.154	0.189	0.446	0.812	1.17	0.243	0.247	1.39	1.24	0.353	0.328	0.575	1981
1982	0.156	0.054	0.449	2.85	1.09	0.547	0.508	0.316	0.289	1.43	0.536	0.710	0.747	1982
1983	0.174	0.093	1.01	1.52	1.46	0.819	0.216	0.256	0.235	0.363	0.437	0.559	0.598	1983
1984	0.373	0.313	0.463	1.20	0.576	1.64	0.355	0.147	0.112	0.532	0.339	0.793	0.569	1984
1985	0.277	0.104	0.567	0.829	1.07	1.42	0.343	0.720	0.941	0.551	1.260	0.203	0.617	1985
1986	0.196	0.197	1.39	2.81	2.32	0.253	0.509	0.221	0.313	0.363	0.256	0.206	0.757	1986
1987	0.205	0.230	0.803	2.46	0.978	0.363	0.232	0.134	0.132	0.225	0.218	0.199	0.514	1987
1988	0.128	0.115	0.141	0.711	0.454	0.291	0.585	0.141	0.146	0.184	0.221	0.164	0.374	1988
1989	0.154	0.170	0.189	1.78	1.01	1.30	1.14	0.240	0.149	0.168	0.189	0.132	0.549	1989
1990	0.147	0.126	0.574	0.989	0.651	0.831	0.258	0.089	0.093	0.140	0.162	0.114	0.348	1990
MEAN	0.170	0.154	0.464	2.10	1.47	1.04	0.493	0.303	0.410	0.527	0.375	0.259	0.647	MEAN

LOCATION - LAT 49 01 25 N
LONG 095 58 40 W
DRAINAGE AREA, 158 km^2
REGULATED

PINE CREEK DIVERSION NEAR PINEY - STATION NO. 05OD027

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1953	---	---	0.303RB ON DEC 08	---	1953
1958	---	---	---	---	1958
1959	---	4.45 ON MAY 07	0.042 ON JUL 31	27 500	1959
1960	---	13.3 ON APR 14	0.057B ON JAN 09	23 300	1960
1961	---	2.13 ON APR 24	0.028B ON JAN 28	11 600	1961
1962	---	10.4 ON JUN 10	0.008B ON JAN 28	28 100	1962
1963	---	7.39 ON JUN 09	0.023B ON JAN 31	27 000	1963
1964	---	4.98 ON MAY 10	0.006B ON FEB 19	22 800	1964
1965	---	11.4 ON MAY 06	0.042B ON MAR 25	34 900	1965
1966	---	10.3 ON APR 09	0.068 ON JUL 29	26 200	1966
1967	---	17.8 B ON APR 21 *	0.006B ON FEB 25	23 300	1967
1968	---	7.99 ON JUL 17	0.051B ON MAR 02	36 700	1968
1969	---	7.87B ON APR 09	0.176 ON AUG 23	26 100	1969
1970	---	9.85 ON MAY 27	0.102 ON AUG 15	29 700	1970
1971	---	9.06 ON APR 19	0.085B ON JAN 25	19 200	1971
1972	---	4.64 ON APR 21	0.025 ON AUG 30	13 200	1972
1973	---	2.52 ON SEP 25	0.037 ON JUL 22	13 900	1973
1974	9.09 AT 05:30 CST ON APR 21	8.89 ON APR 21	0.018 ON AUG 05	23 400	1974
1975	5.01 AT 05:50 CST ON APR 17	4.79 ON APR 17	0.144B ON DEC 05	19 800	1975
1976	3.74 AT 00:56 CST ON APR 07	3.45 ON APR 06	0.062 ON AUG 07	13 500	1976
1977	3.34 AT 06:13 CST ON SEP 25	3.11 ON SEP 25	0.099B ON JAN 09	13 800	1977
1978	6.51B AT 17:04 CST ON APR 09	6.03B ON APR 09	0.136B ON DEC 31	15 300	1978
1979	16.4 B AT 18:03 CST ON APR 19 *	14.3 B ON APR 19	0.119B ON JAN 14	19 200	1979
1980	2.59 AT 13:39 CST ON APR 07	2.44B ON APR 07	0.098 ON AUG 02	9 700	1980
1981	11.8 AT 01:28 CST ON SEP 08	11.1 ON SEP 08	0.118 ON AUG 20	18 100	1981
1982	8.30B AT 22:37 CST ON APR 15	7.28B ON APR 15	0.010B ON FEB 09	23 600	1982
1983	4.96 AT 13:04 CST ON MAY 13	4.87 ON MAY 13	0.004B ON FEB 08	18 800	1983
1984	9.14 AT 02:24 CST ON JUN 10	8.41 ON JUN 09	0.001B ON MAR 10 *	18 000	1984
1985	5.93 AT 17:52 CST ON SEP 04	5.80 ON JUN 28	0.096B ON FEB 16	19 500	1985
1986	10.3 AT 05:23 CST ON MAY 01	9.76 ON MAY 01	0.121 ON AUG 19	23 900	1986
1987	6.03 AT 03:05 CST ON APR 08	5.85 ON APR 08	0.080B ON MAR 17	16 200	1987
1988	5.96 AT 13:47 CST ON JUL 07	5.55 ON JUL 07	0.067B ON DEC 13	8 650	1988
1989	6.25 AT 15:21 CST ON JUL 03	6.11 ON JUL 03	0.110B ON DEC 07	17 300	1989
1990	2.88 AT 10:01 CST ON MAR 16	2.55B ON MAR 16	0.065 ON AUG 21	11 000	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1989		20 400	MEAN

PINE CREEK NEAR MELBOURNE - STATION NO. 05LL014

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0.117	1.06	0.406	0.299	0.444	0.141	0.202	0.150	---	---	---	1965
1966	---	---	0.474	0.814	0.414	0.172	0.090	0.140	0.125	0.148	---	---	---	1966
1967	---	---	0.132	1.04	0.314	0.176	0.089	0.064	0.051	0.142	---	---	---	1967
1968	---	---	0.328	0.353	0.317	0.162	0.204	0.288	0.271	0.300	---	---	---	1968
1969	---	---	0.119	1.29	0.464	0.424	0.487	0.189	0.184	0.243	0.196	0.152	---	1969
1970	0.135	0.140	0.161	1.61	0.765	0.545	0.312	0.105	0.230	0.220	0.253	0.126	0.382	1970
1971	0.124	0.138	0.170	0.793	0.415	0.368	0.291	0.119	0.110	0.289	0.239	0.130	0.265	1971
1972	0.136	0.118	0.316	0.803	0.319	0.279	0.172	0.122	0.114	0.161	0.145	0.085	0.230	1972
1973	0.089	0.097	0.195	0.210	0.319	0.296	0.205	0.116	0.148	0.200	0.146	0.118	0.179	1973
1974	0.084	0.106	0.116	1.66	0.567	0.226	0.064	0.063	0.106	0.159	0.190	0.144	0.289	1974
1975	0.118	0.113	0.125	0.797	0.425	0.225	0.065	0.188	0.205	0.211	0.154	0.119	0.228	1975
1976	0.129	0.135	0.154	1.68	0.210	0.243	0.091	0.068	0.075	0.103	0.132	0.098	0.258	1976
1977	0.122	0.136	0.203	0.201	0.790	0.320	0.302	0.143	0.275	0.213	0.197	0.184	0.258	1977
1978	0.164	0.134	0.308	0.949	0.438	0.235	0.276	0.160	0.170	0.197	0.204	0.168	0.284	1978
1979	0.157	0.147	0.171	1.97	0.773	0.344	0.127	0.121	0.072	0.154	0.238	0.169	0.369	1979
1980	0.146	0.146	0.161	0.448	0.177	0.118	0.109	0.275	0.151	0.227	0.186	0.110	0.188	1980
1981	0.097	0.105	0.198	0.160	0.196	0.244	0.096	0.125	0.122	0.196	0.165	0.110	0.159	1981
1982	0.093	0.106	0.146	0.513	0.245	0.167	0.335	0.105	0.185	0.241	0.147	0.119	0.202	1982
1983	0.110	0.102	0.113	1.59	0.300	0.242	0.189	0.071	0.096	0.205	0.197	0.119	0.278	1983
1984	0.094	0.118	0.218	0.275	0.286	0.284	0.125	0.086	0.077	0.167	0.169	0.102	0.167	1984
1985	0.084	0.087	0.439	0.302	0.136	0.179	0.084	0.385	0.198	0.198	0.137	0.117	0.196	1985
1986	0.102	0.107	0.566	0.620	0.497	0.171	0.139	0.163	0.180	0.240	0.249	0.164	0.267	1986
1987	0.169	0.188	0.204	0.763	0.153	0.100	0.102	0.136	0.085	0.182	0.185	0.148	0.207	1987
1988	0.090	0.105	0.184	0.209	0.217	0.114	0.135	0.054	0.058	0.059	0.077	0.077	0.115	1988
1989	0.077	0.077	0.086	0.459	0.109	0.135	0.095	0.048	0.051	0.101	0.192	0.087	0.126	1989
1990	0.085	0.077	0.543	0.462	0.292	0.145	0.124	0.062	0.048	0.061	0.079	0.082	0.172	1990
MEAN	0.115	0.122	0.233	0.810	0.367	0.239	0.183	0.136	0.138	0.183	0.177	0.124	0.229	MEAN

LOCATION - LAT 49 54 00 N DRAINAGE AREA, 233 km^2
LONG 099 12 30 W NATURAL FLOW

PINE CREEK NEAR MELBOURNE - STATION NO. 05LL014

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	4.11 B ON APR 14	---	---	1965
1966	---	3.14 ON APR 01	---	---	1966
1967	---	5.82 ON APR 10	---	---	1967
1968	---	1.57 ON MAR 26	---	---	1968
1969	---	5.66 E ON APR 13	---	---	1969
1970	13.2 AT 14:22 CST ON APR 26	9.94 ON APR 27	0.040 ON AUG 28	12 100	1970
1971	4.13 AT 23:49 CST ON APR 07	3.37 ON APR 08	0.074 ON AUG 29	8 370	1971
1972	3.14 AT 23:14 CST ON APR 10	2.76 ON APR 11	0.059 ON SEP 04	7 280	1972
1973	0.719 AT 02:59 CST ON MAY 07	0.697 ON MAY 07	0.059 ON JUL 23	5 630	1973
1974	10.9 AT 17:45 CST ON APR 18	9.66 ON APR 19	0.024 ON AUG 18	9 110	1974
1975	3.79 AT 15:10 CST ON APR 15	2.97 ON APR 15	0.028 ON JUL 15	7 200	1975
1976	10.6 AT 18:18 CST ON APR 07	8.58 ON APR 08	0.045 ON AUG 07	8 140	1976
1977	6.12 AT 20:15 CST ON MAY 19	3.88 ON MAY 20	0.057 ON AUG 24	8 140	1977
1978	6.29 AT 12:07 CST ON APR 07	3.54 ON APR 07	0.096 ON AUG 23	8 940	1978
1979	20.1 AT 16:20 CST ON APR 21 *	14.4 ON APR 21 *	0.036A ON AUG 31	11 600	1979
1980	1.31 AT 11:05 CST ON APR 07	1.10 ON AUG 21	0.066 ON AUG 02	5 940	1980
1981	0.670 AT 08:15 CST ON JUN 25	0.512 ON JUN 25	0.068 ON JUL 21	5 020	1981
1982	1.79 AT 10:51 CST ON APR 17	1.37 ON APR 15	0.044 ON AUG 06	6 370	1982
1983	8.68 AT 17:51 CST ON APR 09	6.91 ON APR 10	0.051 ON AUG 19	8 780	1983
1984	0.959 AT 04:03 CST ON JUN 15	0.756 ON JUN 15	0.037 ON AUG 25	5 270	1984
1985	2.65 B AT 13:21 CST ON MAR 27	1.73 B ON MAR 26	0.039 ON APR 18	6 190	1985
1986	4.15 AT 11:42 CST ON MAR 30	2.74 ON MAR 30	0.074 ON JUL 26	8 430	1986
1987	1.77 AT 10:24 CST ON APR 06	2.83 ON APR 06	0.055 ON JUN 26	6 530	1987
1988	0.648 AT 02:47 CST ON JUL 07	0.512 ON APR 07	0.030 ON SEP 13	3 640	1988
1989	2.16 B AT 19:34 CST ON APR 05	1.63 B ON APR 05	0.021 ON AUG 06	3 970	1989
1990	2.30 B AT 15:00 CST ON MAR 15	2.11 B ON MAR 15	0.013E ON OCT 28 *	5 430	1990
				7 240	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PINE CREEK NEAR PINE CREEK - STATION NO. 05OD032

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1928	---	---	---	---	---	---	---	0.781	0.431	0.423	0.629	0.290	---	1928
1929	0.142	0.085	0.544	1.46	1.05	0.803	0.331	0.179	0.277	0.399	0.572	---	---	1929
1930	---	---	---	2.32	3.13	1.24	1.71	0.147	0.195	0.412	0.916	---	---	1930
1931	---	---	---	5.01	1.20	0.402	0.249	0.273	0.398	0.517	0.812	---	---	1931
1932	---	---	---	1.77	1.39	0.409	0.482	0.314	0.334	0.852	---	---	---	1932
1933	---	---	---	3.34	2.58	0.826	0.155	0.111	0.157	0.173	0.254	---	---	1933
1934	---	---	---	0.980	0.504	0.522	0.153	0.129	0.157	0.456	---	---	---	1934
1935	---	---	---	1.90	1.09	0.562	0.726	0.333	0.315	0.317	---	---	---	1935
1936	---	---	---	3.01	0.961	0.622	0.132	0.089	0.247	0.198	0.178	0.100	---	1936
1937	---	---	---	2.70	2.49	0.470	1.26	0.301	0.245	0.304	---	---	---	1937
1938	---	---	0.617	1.62	3.23	0.611	0.227	0.157	0.112	0.171	0.172	---	---	1938
1939	---	---	---	0.528	0.636	0.530	0.127	0.128	0.141	0.202	0.204	---	---	1939
1940	---	---	---	0.640	0.739	0.603	0.204	0.142	0.231	0.302	0.761	0.247	---	1940
1941	0.169	0.151	0.187	2.65	0.595	1.30	0.209	0.168	4.45	1.71	0.384	0.215	1.01	1941
1942	0.062	0.166	1.96	2.23	2.32	0.691	0.276	0.799	2.07	0.559	0.372	0.197	0.943	1942
1943	0.166	0.197	0.159	3.34	2.53	3.33	0.727	0.296	0.372	0.358	0.392	0.175	1.00	1943
1944	0.146	0.166	0.170	1.74	1.45	2.84	0.504	1.68	1.11	0.579	1.52	0.322	1.02	1944
1945	0.226	0.208	3.15	2.31	1.73	0.807	1.59	0.839	3.17	0.791	0.438	0.228	1.29	1945
1946	0.223	0.212	1.86	1.44	1.57	0.471	0.821	0.175	0.406	0.608	0.399	0.246	0.866	1946
1947	0.246	0.250	0.275	1.34	1.56	3.33	0.303	0.605	1.02	1.31	0.486	0.213	0.921	1947
1948	0.271	0.238	0.310	4.81	1.45	0.670	1.22	1.34	0.225	0.250	0.394	0.296	0.955	1948
1949	0.286	0.246	0.294	3.24	1.47	0.542	0.457	0.471	0.256	1.02	0.775	0.306	0.780	1949
1950	0.243	0.245	0.314	3.95	6.19	2.13	1.61	0.414	2.43	1.65	0.548	0.308	1.67	1950
1951	0.263	0.230	0.209	3.23	1.80	0.455	0.242	0.709	0.830	0.626	0.312	0.202	0.757	1951
1952	0.152	0.146	0.194	0.951	0.669	0.693	0.834	0.238	0.155	0.240	0.325	0.217	0.401	1952
1953	0.192	0.191	0.396	1.03	1.53	1.33	0.137	0.028	0.106	---	---	---	---	1953
MEAN	0.199	0.195	0.683	2.23	1.74	1.05	0.583	0.425	0.763	0.577	0.516	0.244	0.953	MEAN

LOCATION - LAT 48 59 35 N LONG 095 55 04 W DRAINAGE AREA, 197 km^2 NATURAL FLOW INTERNATIONAL GAUGING STATION

PINE CREEK NEAR PINE CREEK - STATION NO. 05OD032

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1928	---	---	---	---	1928
1929	---	3.26B ON APR 08	---	---	1929
1930	---	12.7 ON MAY 13	---	---	1930
1931	6.48 AT 21:30 CST ON APR 07	6.00 ON APR 07	---	---	1931
1932	7.25B AT 23:00 CST ON APR 10	6.99B ON APR 10	---	---	1932
1933	14.2 AT 12:00 CST ON MAY 25	13.0 ON MAY 25	---	---	1933
1934	---	1.98B ON APR 08	---	---	1934
1935	4.08 AT 17:30 CST ON APR 27	3.85 ON APR 27	---	---	1935
1936	14.6 AT 13:00 CST ON APR 17	12.7 ON APR 17	---	---	1936
1937	13.8 AT 23:00 CST ON MAY 01	13.1 ON MAY 01	---	---	1937
1938	10.3 AT 11:00 CST ON MAY 10	10.0 ON MAY 10	---	---	1938
1939	1.39 AT 18:00 CST ON APR 27	1.36 ON APR 27	---	---	1939
1940	1.67	1.56 ON APR 30	---	---	1940
1941	20.0 AT 12:00 CST ON SEP 25 *	18.8 ON SEP 25 *	0.031B ON DEC 31	31 900	1941
1942	13.1 AT 20:00 CST ON APR 29	11.6 ON APR 30	0 B ON JAN 05 *	29 800	1942
1943	12.3 AT 01:00 CST ON APR 09	11.0 ON APR 09	0.125B ON MAR 16	31 500	1943
1944	7.73 AT 07:00 CST ON JUN 08	7.50 ON JUN 08	0.125B ON JAN 05	32 100	1944
1945	15.1 AT 04:00 CST ON MAR 28	14.2 ON MAR 28	0.198B ON JAN 29	40 800	1945
1946	---	7.50E ON MAR 22	0.139 ON AUG 06	21 700	1946
1947	16.7 AT 15:00 CST ON JUN 11	14.4 ON JUN 11	0.215 ON JUL 23	29 100	1947
1948	---	16.7 ON APR 19	0.201 ON SEP 29	30 200	1948
1949	10.9 AT 20:00 CST ON APR 10	9.06 ON APR 10	0.170 ON OCT 04	24 600	1949
1950	12.9 AT 04:00 CST ON APR 24	14.3 ON APR 24	0.227B ON JAN 23	52 800	1950
1951	7.70E ON APR 06	7.36E ON APR 07	0.139 ON JUL 26	23 900	1951
1952	2.78 AT 13:00 CST ON JUL 05	2.72 ON JUL 05	0.130 ON SEP 21	12 700	1952
1953	3.65 AT 20:00 CST ON MAY 13	3.45 ON MAY 13	0 ON AUG 19	---	1953
				30 100	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PINE CREEK NEAR PINE CREEK STATION - STATION NO. 05LL007

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.783	2.58	1.75	0.734	0.450	0.301	0.625	1.47	---	---	1.46	1959
1960	---	---	0.142	8.56	1.65	0.931	0.443	0.440	0.376	0.501	---	---	2.79	1960
1961	---	---	0.972	2.28	1.72	0.524	0.301	0.126	0.348	0.469	---	---	1.38	1961
1962	---	---	0.116	3.57	1.60	1.45	0.454	0.365	0.317	0.513	---	---	1.67	1962
1963	---	---	1.23	1.94	1.20	2.38	0.980	0.425	0.373	0.497	---	---	1.68	1963
1964	---	---	0.142	2.84	1.45	1.16	0.768	0.392	0.611	0.568	---	---	1.39	1964
1965	---	---	0.335	5.81	1.79	1.41	0.955	0.401	1.04	0.703	---	---	2.32	1965
1966	---	---	0.668	3.20	1.84	0.805	0.515	0.762	0.740	0.650	---	---	1.62	1966
1967	---	---	0.107	4.05	1.29	0.673	0.404	0.240	0.153	0.692	---	---	1.52	1967
1968	---	---	1.14	2.00	1.19	0.497	0.552	1.17	0.829	0.679	---	---	1.20	1968
1969	---	---	0.012	5.18	1.76	1.14	2.19	0.633	0.433	0.782	---	---	2.00	1969
1970	---	---	0.391	7.21	4.65	1.48	1.32	0.526	0.990	0.723	---	---	3.42	1970
1971	---	---	0.544	4.44	1.89	1.67	1.17	0.383	0.328	1.22	---	---	2.12	1971
1972	---	---	1.00	3.15	1.67	1.37	0.611	0.620	0.380	0.441	---	---	1.79	1972
1973	---	---	0.540	0.663	1.60	1.22	0.845	0.676	0.509	0.721	---	---	1.01	1973
1974	---	---	0.011	6.96	4.00	0.867	0.237	0.137	0.476	0.465	---	---	2.94	1974
1975	---	---	0.473	3.48	2.32	0.963	0.381	1.35	1.73	0.796	---	---	1.80	1975
1976	---	---	0.584	8.50	0.956	0.841	0.281	0.152	0.218	0.775	---	---	2.69	1976
1977	---	---	0.661	1.28	2.30	1.11	0.804	0.565	1.26	0.857	---	---	1.34	1977
1978	---	---	0.388	3.50	1.67	1.16	---	---	---	---	---	---	1.67	1978
1979	---	---	0.463	8.14	4.44	1.45	---	---	---	---	---	---	3.60	1979
1980	---	---	0.442	1.94	0.852	0.388	---	---	---	---	---	---	0.901	1980
1981	---	0.276	0.707	0.869	0.953	0.988	---	---	---	---	---	---	0.878	1981
1982	---	---	0.507	3.01	1.22	0.800	---	---	---	---	---	---	1.38	1982
1983	---	---	0.341	5.64	1.42	1.11	---	---	---	---	---	---	2.11	1983
1984	---	---	0.884	1.45	1.27	0.975	---	---	---	---	---	---	1.14	1984
1985	---	---	1.14	1.42	0.837	0.734	---	---	---	---	---	---	1.03	1985
1986	---	---	4.09	3.85	3.78	0.544	---	---	---	---	---	---	2.44	1986
1987	---	---	0.919	4.07	0.564	0.479	---	---	---	---	---	---	1.45	1987
1988	---	---	0.199	1.01	1.10	0.359	---	---	---	---	---	---	0.668	1988
1989	---	---	0.310	2.33	0.653	0.854	---	---	---	---	---	---	1.03	1989
1990	---	---	1.47	2.10	1.59	0.915	---	---	---	---	---	---	1.52	1990
MEAN	---	0.276	0.616	3.66	1.76	0.993	0.719	0.509	0.619	0.712	---	---	1.75	MEAN

LOCATION - LAT 50 03 40 N LONG 098 56 49 W
DRAINAGE AREA, 635 km^2
NATURAL FLOW

PINE CREEK NEAR PINE CREEK STATION - STATION NO. 05LL007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	7.16B ON MAR 30	0.113B ON MAR 01	15 400	1959
1960	---	32.3 ON APR 12	0.142B ON MAR 01	29 400	1960
1961	---	3.65 ON APR 23	0.283B ON MAR 01	14 500	1961
1962	---	13.1 ON APR 20	0.113B ON MAR 01	17 600	1962
1963	---	6.26 ON JUN 11	0.170B ON MAR 01	17 700	1963
1964	---	6.57B ON APR 14	0.142B ON MAR 01	14 600	1964
1965	---	43.6 ON APR 14	0.283B ON MAR 01	24 400	1965
1966	---	10.6 B ON APR 01	0.210B ON MAR 01	17 100	1966
1967	---	8.98B ON APR 15	0.088B ON MAR 01	16 000	1967
1968	---	5.52B ON MAR 28	0.292 ON JUN 28	12 700	1968
1969	---	29.7 ON APR 14	0.004B ON MAR 28	21 100	1969
1970	---	40.5 ON APR 28	0.391B ON MAR 01	36 000	1970
1971	---	13.3 ON APR 10	0.544B ON MAR 01	22 400	1971
1972	---	6.43B ON APR 12	0 B ON MAR 01 *	18 800	1972
1973	---	3.85 ON MAY 07	0.028B ON MAR 01	10 600	1973
1974	---	26.1 ON APR 20	0.011B ON MAR 01	31 000	1974
1975	---	10.5 B ON APR 16	0.473B ON MAR 01	19 000	1975
1976	---	21.5 B ON APR 08	0.368 ON JUN 04	28 300	1976
1977	---	5.80 ON MAY 22	0.215 ON JUN 11	14 100	1977
1978	---	7.08B ON APR 11	0.314B ON MAR 01	17 600	1978
1979	---	44.3 B ON APR 22 *	0.428B ON MAR 01	38 000	1979
1980	---	3.23B ON APR 08	0.247 ON JUN 21	9 500	1980
1981	1.57 AT 10:10 CST ON JUN 17	1.37 ON JUN 19	0.526B ON MAR 08	9 260	1981
1982	---	7.80B ON APR 15	0.425B ON MAR 01	14 500	1982
1983	---	17.8 B ON APR 10	0.305B ON MAR 25	22 200	1983
1984	3.23B AT 06:23 CST ON MAR 27	3.15B ON MAR 27	0.412B ON MAR 01	12 100	1984
1985	3.39B AT 14:14 CST ON MAR 31	3.25B ON MAR 24	0.125B ON MAR 01	10 900	1985
1986	11.7 AT 12:00 CST ON MAY 06	11.0 ON MAY 06	0.404B ON MAR 19	25 800	1986
1987	11.0 AT 13:19 CST ON APR 08 *	11.0 ON APR 08	0.178 ON JUN 30	15 200	1987
1988	3.50B AT 16:19 CST ON APR 06	2.99B ON APR 06	0.040B ON MAR 01	7 040	1988
1989	4.11B AT 12:58 CST ON APR 06	3.88B ON APR 06	0.274 ON MAY 25	10 800	1989
1990	5.40B AT 14:48 CST ON APR 02	5.21 ON MAY 19	0.200B ON MAR 04	16 000	1990
				18 400	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PIPESTONE CREEK NEAR PIPESTONE - STATION NO. 05NG003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1936	---	---	---	---	3.25	0.528	---	---	---	---	---	---	---	1936
1943	---	---	---	23.0	1.73	1.24	0.387	0.104	0.058	0.096	---	---	---	1943
1944	---	---	0	0.480	0.247	0.657	0.801	0.171	0.160	0.097	---	---	---	1944
1945	---	---	1.35	1.02	0.523	0.612	0.917	0.150	0.030	0.107	---	---	---	1945
1946	---	---	---	7.89	0.758	0.335	2.52	0.161	0.036	0.328	---	---	---	1946
1947	---	---	0	14.7	2.55	7.71	3.81	0.564	0.318	0.244	---	---	---	1947
1948	---	---	---	---	10.2	1.61	0.963	0.560	0.188	---	---	---	---	1948
1949	---	---	0	7.85	0.761	2.52	0.400	0.408	0.051	0.222	---	---	---	1949
1950	---	---	0.668	11.3	5.90	2.58	3.29	3.32	0.574	0.386	---	---	---	1950
1951	---	---	0	11.6	8.77	0.928	0.667	0.238	0.248	0.561	---	---	---	1951
1952	---	---	0.269	6.73	0.983	0.486	0.515	0.136	0.879	0.165	---	---	---	1952
1953	---	---	---	8.10	1.61	12.0	4.32	0.765	0.121	0.317	---	---	---	1953
1954	---	---	0	3.50	2.47	14.8	24.0	2.44	2.49	4.63	2.71	---	---	1954
1955	---	---	---	23.9	30.8	16.5	7.64	1.07	1.25	0.143	---	---	---	1955
1956	---	---	---	17.5	7.18	1.96	2.06	0.747	0.223	1.51	1.37	1.06	---	1956
1957	1.02	1.02	1.55	5.34	2.33	0.771	0.425	0.170	3.00	1.78	0.335	0.069	1.48	1957
1958	0.005	0.001	1.11	6.52	0.896	0.072	0.110	0.027	0.020	0.580	0.254	0	0.796	1958
1959	0	0	0.634	0.546	0.133	0.045	0.023	0.005	0.252	0.115	0.111	0.045	0.159	1959
1960	0	0	0.011	6.91	0.636	0.367	0.144	0.116	0.133	1.05	0.373	0.113	0.813	1960
1961	0.048	0.047	0.407	0.721	0.236	0.073	0.022	0.003	0.002	0.005	0.039	0.058	0.138	1961
1962	0.055	0.057	0.058	0.882	0.076	0.427	0.090	0.226	0.007	0	0	0	0.155	1962
1963	0	0	1.29	0.597	0.405	0.996	0.899	0.469	0.251	0.260	0.442	0.320	0.497	1963
1964	0.245	0.096	0.037	6.03	2.96	0.796	0.210	0.200	0.486	0.763	0.422	0.125	1.03	1964
1965	0.083	0.082	0.117	8.18	0.612	0.916	2.22	0.295	1.25	1.14	0.436	0.383	1.30	1965
1966	0.178	0.024	0.792	7.19	1.95	0.944	0.320	0.238	0.306	0.393	0.283	0.421	1.08	1966
1967	0.478	0.505	0.804	6.29	2.23	0.170	0.064	0.017	0.016	0.077	0.033	0.040	0.889	1967
1968	0.162	0.166	2.59	1.32	0.183	0.015	0.004	0.034	0.076	0.054	0.050	0.088	0.396	1968
1969	0	0	0	20.0	2.29	0.835	2.93	0.553	0.135	0.304	1.22	0.339	2.37	1969
1970	0.155	0.419	0.495	10.6	10.1	1.53	0.833	0.442	0.647	0.585	0.543	0.387	2.23	1970
1971	0.351	0.207	0.303	4.87	0.935	0.722	0.638	0.110	0.901	0.777	0.301	0.163	0.852	1971
1972	0.097	0.079	5.17	7.27	1.06	0.593	0.158	0.229	0.362	0.552	0.300	0.062	1.33	1972
1973	0.023	0.049	0.376	0.429	0.227	0.069	0.142	0.102	0.331	0.721	0.246	0.179	0.251	1973
1974	0.108	0.122	0.150	23.8	9.99	2.42	0.610	0.134	0.062	0.486	0.428	0.271	3.20	1974
1975	0.189	0.037	0.009	9.06	15.5	4.10	0.678	0.436	4.59	3.75	1.78	0.646	3.41	1975
1976	0.456	0.607	0.556	66.1	9.10	10.4	2.47	0.466	1.87	1.64	0.473	0.311	7.78	1976
1977	0.253	0.220	0.325	0.928	0.276	0.093	0.059	0.019	0.069	0.123	0.056	0.062	0.206	1977
1978	0.044	0.037	0.090	3.87	0.491	0.116	0.214	0.026	0.151	0.287	0.082	0.032	0.450	1978
1979	0.012	0.010	0.009	8.81	8.21	0.956	0.340	0.059	0.024	0.405	0.137	0.042	1.59	1979
1980	0.012	0.008	0.034	3.35	0.148	0.040	0.248	0.031	0.010	0.043	0.268	0.077	0.351	1980
1981	0.064	0.056	1.02	0.321	0.045	0.015	0.002	0.002	0.001	0.003	0.006	0.003	0.129	1981
1982	0	0	0.013	8.29	0.967	0.100	0.010	0.005	0.008	0.311	0.031	0.032	0.806	1982
1983	0.059	0.070	0.077	12.4	3.64	1.23	0.151	0.016	0.860	0.032	0.021	0.061	1.54	1983
1984	0.019	0.087	1.43	0.751	0.296	0.029	0.004	0.002	0.115	0.156	0.053	0.010	0.247	1984
1985	0.002	0.002	1.79	7.75	1.45	0.121	0.061	0.619	0.202	0.380	0.240	0.189	1.07	1985
1986	0.335	0.314	5.91	2.32	1.19	1.26	0.294	0.035	0.027	0.416	0.601	0.047	1.26	1986
1987	0.052	0.049	1.71	7.73	0.251	0.131	0.079	0.019	0.059	0.703	0.094	0.065	0.907	1987
1988	0.011	0.001	0.043	0.199	0.082	0.028	0.003	0.001	0.002	0.002	0.001	0.001	0.031	1988
1989	0	0	0	0.569	0.012	0.004	0.001	0	0	0	0	0	0.048	1989
1990	0	0	0.154	1.55	0.189	0.302	0.368	0.003	0	0.014	0.106	0.002	0.223	1990
MEAN	0.133	0.129	0.746	8.28	3.25	1.94	1.40	0.332	0.476	0.568	0.385	0.163	1.15	MEAN

LOCATION - LAT 49 35 40 N DRAINAGE AREA, 4 200 km²
LONG 100 56 30 W REGULATED

REMARKS - SOME FLOW WILL BYPASS THE GAUGE AT VERY HIGH STAGES. DATA PRIOR TO 1958 WERE PUBLISHED UNDER STATION NO. 05NG006

PIPESTONE CREEK NEAR PIPESTONE - STATION NO. 05NG003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1936	---	---	---	---	1936
1943	---	56.4 ON APR 10	---	---	1943
1944	---	2.94 ON JUN 29	0 B ON MAR 01 *	---	1944
1945	---	4.08 B ON MAR 23	---	---	1945
1946	---	28.2 B ON APR 01	0 ON SEP 21	---	1946
1947	---	36.2 ON JUN 27	0 B ON MAR 01	---	1947
1948	---	37.1 ON APR 23	---	---	1948
1949	---	26.1 ON APR 12	0 B ON MAR 01	---	1949
1950	---	32.3 ON APR 20	---	---	1950
1951	---	30.0 ON MAY 07	0 B ON MAR 01	---	1951
1952	---	18.0 ON APR 10	---	---	1952
1953	---	32.0 ON JUN 10	0 ON SEP 20	---	1953
1954	---	64.0 ON JUL 11	---	---	1954
1955	---	74.2 ON MAY 07	---	---	1955
1956	---	44.2 ON APR 19	---	---	1956
1957	---	8.27 B ON APR 08	0 ON AUG 18	46 600	1957
1958	---	20.1 B ON APR 05	0 B ON JAN 07	25 100	1958
1959	---	2.94 ON SEP 07	0 B ON JAN 01	5 030	1959
1960	---	20.9 B ON APR 14	0 B ON JAN 01	25 700	1960
1961	---	0.968B ON APR 11	0 ON AUG 18	4 360	1961
1962	---	4.16 ON AUG 11	0 ON OCT 01	4 900	1962
1963	---	9.51 B ON MAR 23	0 B ON JAN 01	15 700	1963
1964	---	19.3 B ON APR 16	0.023 ON AUG 06	32 500	1964
1965	---	25.8 ON APR 19	0.051 ON AUG 22	41 100	1965
1966	---	24.1 B ON APR 06	0 B ON MAR 02	34 200	1966
1967	---	23.0 B ON APR 15	0.006 ON AUG 30	28 000	1967
1968	---	6.94 B ON MAR 26	0 ON JUN 20	7 920	1968
1969	---	113 A ON APR 15	0 B ON JAN 01	12 500	1969
1970	---	29.7 A ON MAY 01	0.091B ON JAN 13	74 800	1970
1971	---	15.8 B ON APR 12	0.008 ON AUG 27	70 300	1971
1972	---	20.4 B ON MAR 25	0.028B ON DEC 31	26 900	1972
1973	2.01 AT 21:40 CST ON OCT 21	1.89 ON SEP 27	0.014B ON JAN 10	41 900	1973
1974	74.2 AT 08:00 CST ON APR 23 *	73.1 ON APR 23	0.040 ON SEP 25	7 920	1974
1975	55.2 AT 15:22 CST ON APR 30	54.1 ON APR 30	0 ON SEP 17	101 000	1975
1976	---	153 B ON APR 12 *	0.232 ON AUG 23	107 000	1976
1977	1.57 AT 08:45 CST ON APR 16	1.50 ON APR 16	0.004 ON AUG 29	246 000	1977
1978	---	8.75 B ON APR 13	0.017 ON SEP 13	6 490	1978
1979	51.2 B AT 08:17 CST ON APR 28	47.9 B ON APR 28	0.005B ON APR 07	14 200	1979
1980	---	10.4 B ON APR 13	0.006 ON SEP 16	50 100	1980
1981	---	1.87 B ON MAR 16	0 ON AUG 11	11 100	1981
1982	27.6 AT 12:14 CST ON APR 18	34.6 ON APR 18	0 B ON JAN 01	4 070	1982
1983	34.4 AT 17:27 CST ON APR 26	33.9 ON APR 26	0.002B ON DEC 13	25 400	1983
1984	6.75 B AT 08:00 CST ON MAR 25	6.63 B ON MAR 25	0 B ON JAN 22	48 600	1984
1985	24.5 B AT 10:55 CST ON APR 08	22.5 B ON APR 08	0.001B ON FEB 11	7 820	1985
1986	16.6 B AT 11:52 CST ON MAR 23	14.3 B ON MAR 23	0.009 ON AUG 23	33 600	1986
1987	27.1 B AT 09:30 CST ON APR 08	23.7 B ON APR 08	0.003 ON AUG 05	39 600	1987
1988	0.386 AT 09:11 CST ON APR 08	0.365 ON APR 08	0 B ON MAR 03	28 600	1988
1989	5.01 B AT 04:26 CST ON APR 02	4.44 B ON APR 02	0 B ON JAN 01	983	1989
1990	6.72 AT 14:57 CST ON JUL 04	5.54 B ON APR 07	0 B ON JAN 01	1 520	1990
				7 030	
				36 200	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PIPESTONE CREEK NEAR THE SASKATCHEWAN BOUNDARY - STATION NO. 05NG024

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1982	---	---	---	---	---	---	---	---	0.002	0.400	0.033	0.080	---	1982
1983	0.068	0.036	0.055	12.1	3.04	0.551	0.028	0.129	0.436	0.001	0.002	0.272	1.38	1983
1984	0.113	0.073	0.262	0.099	0.020	0.001	0	0.060	0.219	0.075	0.005	0.003	0.078	1984
1985	0	0	0.847	8.05	1.16	0.090	0.008	0.094	0.180	0.260	0.355	0.263	0.937	1985
1986	0.209	0.278	6.44	1.60	3.19	0.696	0.210	0.036	0.041	0.476	0.711	0.041	1.17	1986
1987	0.015	0.017	1.65	5.16	0.058	0.017	0.048	0.014	0.190	0.296	0.011	0.004	0.620	1987
1988	0	0	0.099	0.146	0.039	0.001	0	0	0.010	0.139	0.024	0.002	0.038	1988
1989	0	0	0.093	0.111	0.012	0	0	0	0.156	0.022	0.004	0.001	0.033	1989
1990	0	0	0.255	1.70	0.151	0.307	0.097	0.001	0	0.303	0.065	0.002	0.239	1990
MEAN	0.051	0.051	1.21	3.62	0.959	0.208	0.049	0.042	0.137	0.219	0.134	0.075	0.562	MEAN

LOCATION - LAT 49 50 28 N LONG 101 23 48 W DRAINAGE AREA, 3 860 km^2 REGULATED

PIPESTONE CREEK NEAR THE SASKATCHEWAN BOUNDARY - STATION NO. 05NG024

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1982	---	---	---	---	1982
1983	36.9 AT 00:35 CST ON APR 25 *	36.3 ON APR 24 *	0 B ON MAR 02 *	43 600	1983
1984	2.86 B AT 00:12 CST ON MAR 24	1.81 B ON MAR 24	0 ON JUL 29	2 450	1984
			0 ON JUN 02		
1985	21.7 AT 16:26 CST ON APR 07	21.4 ON APR 07	0 B ON JAN 01	29 500	1985
1986	20.7 B AT 14:33 CST ON MAR 23	16.5 B ON MAR 22	0.006 ON AUG 28	36 900	1986
1987	24.4 AT 12:41 CST ON APR 06	23.4 ON APR 07	0 ON JUN 16	19 600	1987
1988	0.398 AT 12:41 CST ON OCT 09	0.381 ON OCT 09	0 B ON JAN 01	1 220	1988
1989	0.926B AT 00:19 CST ON MAR 27	0.576 ON SEP 23	0 B ON JAN 01	1 050	1989
1990	7.04 B AT 22:58 CST ON APR 05	6.07 B ON APR 05	0 B ON JAN 01	7 530	1990
				17 700	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PLEASANT VALLEY CREEK NEAR GRANDVIEW - STATION NO. 05LJ031

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	0	0.572	0.335	0.004	0	0	0	0.024	---	---	0.116	1964
1965	---	---	0	1.04	0.394	0.208	0.038	0.011	0.161	0.133	---	---	0.246	1965
1966	---	---	0.099	1.89	1.49	0.185	0.163	0.006	0.004	0.002	---	---	0.477	1966
1967	---	---	0	0.982	1.39	0.072	0.004	0.001	0	0.034	---	---	0.310	1967
1968	---	---	0.421	0.868	0.080	0.012	0.023	0.032	0.011	0.006	---	---	0.180	1968
1969	---	---	0	2.40	0.175	0.040	0.548	0.383	0.023	0.229	---	---	0.470	1969
1970	---	---	0.010	2.33	3.01	0.419	0.401	0.208	0.010	0.087	---	---	0.808	1970
1971	---	---	0.040	2.26	0.331	1.87	0.681	0.160	0	0.021	---	---	0.661	1971
1972	---	---	0.044	0.992	0.941	0.246	0.115	0.403	0.611	0.291	---	---	0.453	1972
1973	---	---	0.037	0.031	0.009	0.025	0.004	0.002	0.026	0.058	---	---	0.024	1973
1974	---	---	0	0.547	4.83	2.53	0.156	0.011	0.014	0.028	---	---	1.01	1974
1975	---	---	0.252	1.39	2.07	1.20	0.164	0.060	0.769	0.620	---	---	0.812	1975
1976	---	---	0.218	2.77	1.34	1.51	0.612	0.270	0.363	0.038	---	---	0.883	1976
1977	---	---	0.099	0.050	0.049	0.006	0.011	0.003	0.023	0.970	---	---	0.153	1977
1978	---	---	0.210	0.824	0.543	0.167	0.159	0.079	0.007	0.006	---	---	0.248	1978
1979	---	---	0.048	1.92	3.47	1.27	0.067	0.028	0.001	0.060	---	---	0.855	1979
1980	---	---	0.184	0.344	0.007	0.024	0	0.132	0.002	0.139	---	---	0.104	1980
1981	---	---	0.259	0.116	0.015	0.007	0.171	0	0.043	0.199	---	---	0.102	1981
1982	---	---	0.160	0.245	0.018	0.002	0	0.002	0.055	0.293	---	---	0.097	1982
1983	---	---	0.230	0.673	0.255	0.566	0.327	0.079	0.024	0.141	---	---	0.286	1983
1984	---	---	0.227	0.154	0.030	0.012	0.146	0.027	0.197	0.079	---	---	0.109	1984
1985	---	---	0.221	0.652	0.038	0.057	0.028	0.076	0.100	0.469	---	---	0.205	1985
1986	---	---	0.545	1.51	1.61	0.511	0.174	0.074	0.284	0.227	---	---	0.615	1986
1987	---	---	0.210	0.651	0.166	0.048	0.152	0.150	0.167	0.017	---	---	0.194	1987
1988	---	---	0.031	0.370	1.79	0.213	0.071	0.228	0.245	0.145	---	---	0.388	1988
1989	---	---	0.045	0.121	0.096	0.059	0.237	0.225	0.080	0.013	---	---	0.110	1989
1990	---	---	0.003	0.407	0.081	0.170	0.525	0.221	0.037	0.056	---	---	0.187	1990
MEAN	---	---	0.133	0.967	0.910	0.423	0.184	0.106	0.121	0.162	---	---	0.374	MEAN

LOCATION - LAT 51 06 16 N DRAINAGE AREA 261 km²
LONG 100 52 57 W REGULATED SINCE 1972

PLEASANT VALLEY CREEK NEAR GRANDVIEW - STATION NO. 05LJ031

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	1.92 B ON APR 15	0 B ON MAR 01 *	2 450	1964
1965	---	3.31 ON APR 14	0 B ON MAR 01	5 200	1965
1966	---	4.19 B ON APR 05	0 B ON MAR 01	10 100	1966
1967	---	3.79 B ON APR 15	0 B ON MAR 01	6 560	1967
1968	---	1.95 B ON MAR 28	0 B ON MAR 01	3 820	1968
1969	---	8.86 B ON APR 15	0 B ON MAR 01	9 950	1969
1970	---	9.06 E ON APR 26	0 ON AUG 29	17 100	1970
1971	---	6.57 ON APR 12	0 ON AUG 30	14 000	1971
1972	---	3.03 B ON APR 17	0.028B ON MAR 01	9 600	1972
1973	0.705 AT 08:00 CST ON OCT 03	0.425 ON OCT 03	0 ON JUL 31	505	1973
1974	13.4 AT 19:43 CST ON MAY 22 *	11.6 ON MAY 23 *	0 B ON MAR 01	21 500	1974
1975	9.37 AT 17:00 CST ON APR 28	7.25 ON APR 28	0.008 ON AUG 18	17 200	1975
1976	4.42 AT 21:49 CST ON APR 08	3.68 ON APR 09	0.001 ON OCT 18	18 700	1976
1977	3.71 AT 21:11 CST ON OCT 11	3.43 ON OCT 12	0 ON JUL 04	3 240	1977
1978	2.82 AT 22:58 CST ON APR 17	2.21 ON APR 18	0.001 ON SEP 10	5 260	1978
1979	---	6.82 B ON APR 22	0 ON JUL 26	18 100	1979
1980	---	0.804A ON APR 14	0 ON MAY 16	2 200	1980
1981	13.3 AT 22:09 CST ON JUL 01	2.87 ON JUL 02	0 ON AUG 03	2 160	1981
1982	---	2.10 E ON OCT 01	0 ON JUN 17	2 050	1982
1983	6.76 B AT 18:40 CST ON APR 23	4.03 B ON APR 24	0 ON AUG 06	6 040	1983
1984	1.21 AT 21:41 CST ON MAY 03	0.855 ON JUL 30	0 ON JUN 29	2 310	1984
1985	2.91 B AT 22:17 CST ON APR 04	2.13 ON APR 14	0 ON AUG 08	4 330	1985
1986	4.41 B AT 18:13 CST ON MAR 28	3.26 B ON MAR 23	0 ON SEP 08	13 000	1986
1987	4.67 B AT 19:31 CST ON APR 04	3.04 B ON APR 05	0.002E ON OCT 29	4 100	1987
1988	---	2.29 ON MAY 10	0 ON JUL 11	8 210	1988
1989	1.38 B AT 10:47 CST ON APR 02	0.726B ON APR 02	0.007 ON MAY 08	2 320	1989
1990	2.73 B AT 18:20 CST ON APR 19	2.14 B ON APR 19	0 B ON MAR 16	3 970	1990
				7 930	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PLUM CREEK NEAR SOURIS - STATION NO. 05NG007

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	4.00	14.4	12.3	6.15	4.05	3.78	2.88	1.78	1.25	---	1956
1957	0.293	0.170	0.342	4.01	4.70	3.57	2.03	1.67	1.29	1.55	0.865	0.010	2.38	1957
1958	0	0.066	0.073	3.20	2.58	0.577	0.169	0	0	0	0	0	0.819	1958
1959	0	0	0.095	0.070	0.013	0	0	0	0	0.004	0.028	0.008	0.023	1959
1960	0.004	0	0	1.20	0.945	0.583	0.078	0.008	0	0	0	0	0.349	1960
1961	0	0	0.010	0.062	0.030	0.003	0	0	0	0	0	0	0.013	1961
1962	0	0	0	0.080	0.009	0.003	0	0	0	0	0	0	0.011	1962
1963	0	0	0.006	0.011	0.015	0.398	0.020	0.004	0.001	0	0	0	0.056	1963
1964	0	0	0	0.359	0.225	0.007	0.003	0	0	0	0	0	0.074	1964
1965	0	0	0	0.451	0.164	0.142	0.228	0.129	0.280	0.202	0.088	0.041	0.198	1965
1966	0.003	0	0.037	0.935	3.12	0.907	0.338	0.215	0.081	0.019	0.012	0	0.708	1966
1967	0	0	0	0.567	0.580	0.468	0.136	0.002	0	0	0	0	0.217	1967
1968	0	0	0.086	0.077	0.001	0	0	0	0	0.005	0.010	0	0.021	1968
1969	0	0	0	5.68	12.1	1.62	2.00	1.43	0.959	0.819	0.677	0.387	3.09	1969
1970	0.124	0	0	0.997	11.5	5.39	2.95	1.90	1.94	1.22	1.21	0.284	3.24	1970
1971	0.048	0	0	0.964	3.05	2.85	1.87	0.557	0.623	0.824	0.217	0.010	1.34	1971
1972	0	0	0.216	2.03	3.97	1.68	0.551	0.188	0.132	0.082	0.030	0.001	1.10	1972
1973	0	0	0.017	0.026	0.089	0.032	0.009	0.004	0.005	0.017	0.013	0.001	0.025	1973
1974	0	0	0	1.47	16.0	5.57	0.966	0.483	0.505	0.543	0.362	0.167	3.20	1974
1975	0.050	0.001	0	1.11	16.2	8.93	3.09	2.03	2.98	4.96	4.29	3.26	4.92	1975
1976	2.60	1.65	0.750	55.4	28.8	8.54	5.58	1.27	1.15	0.845	0.688	0.244	12.7	1976
1977	0.033	0.001	0.064	0.804	0.746	0.215	0.091	0.005	0.115	0.037	0.024	0	0.258	1977
1978	0	0	0.013	0.496	0.255	0.085	0.110	0	0	0	0	0	0.119	1978
1979	0	0	0	0.443	3.18	2.88	0.358	0.017	0.062	0.056	0.036	0.007	0.871	1979
1980	0	0	0	0.151	0	0	0	0	0	0	0.013	0.012	0.019	1980
1981	0	0.032	0.007	0.001	0.001	0.004	0.001	0	0	0	0.001	0.001	0.002	1981
1982	---	---	0.074	0.526	0.186	0.135	0.009	0	0	0	---	---	0.115	1982
1983	---	---	0.003	0.422	0.056	0.157	0.096	0.027	0	0	---	---	0.094	1983
1984	---	---	0.009	0.007	0.037	0.006	0.001	0	0	0	---	---	0.007	1984
1985	---	---	0.059	0.082	0.032	0.005	0.001	0.009	0.024	0.049	---	---	0.032	1985
1986	---	---	0.103	0.180	1.54	0.647	0.492	0.199	0	---	---	---	0.397	1986
1987	---	---	0.096	0.417	0.500	0.191	0.038	0.019	0.008	0.002	---	---	0.158	1987
1988	---	---	0.008	0.026	0.010	0	0	0	0	0	---	---	0.006	1988
1989	---	---	0.001	0.144	0.002	0	0	0	0	0	---	---	0.018	1989
1990	---	---	0.020	0.010	0.007	0.001	0	0	0	0	---	---	0.005	1990
MEAN	0.126	0.077	0.061	2.47	3.57	1.65	0.782	0.406	0.398	0.403	0.398	0.219	1.08	MEAN

LOCATION - LAT 49 37 30 N DRAINAGE AREA, 5 380 km²
LONG 100 18 20 W REGULATED

PLUM CREEK NEAR SOURIS - STATION NO. 05NG007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1956	---	---	---	---	1956
1957	---	22.3 ON JUN 22	---	---	1957
1958	---	8.52 ON APR 27	0.028B ON MAR 13	50 500	1958
1959	---	4.22 ON APR 14	0 B ON MAR 04 *	17 300	1959
		0.708 ON MAR 31	0 ON MAR 01	479	
1960	---				1960
1961	---	5.24 B ON APR 11	0 B ON MAR 01	7 380	1961
1962	---	0.218B ON APR 03	0 ON MAR 01	276	1962
1963	---	0.323 ON APR 21	0 ON MAR 01	240	1963
1964	---	1.53 ON JUN 16	0 ON MAR 01	1 190	1964
1965	---	1.08 ON APR 18	0 ON MAR 01	1 560	1965
1966	---				1966
1967	1.16 AT 16:00 CST ON APR 23	1.19 ON APR 14	0 B ON MAR 01	4 200	1967
1968	---	4.33 ON MAY 05	0 B ON MAR 01	15 000	1968
1969	24.5 AT 17:08 CST ON MAY 01	1.07 ON APR 24	0 B ON MAR 01	4 600	1969
		0.365B ON MAR 24	0 B ON MAR 01	448	
		24.4 ON MAY 02	0 B ON MAR 01	65 300	
1970	17.7 AT 17:41 CST ON MAY 16	17.6 ON MAY 16	0 B ON MAR 01	68 600	1970
1971	3.96 AT 15:41 CST ON JUN 16	3.94 ON JUN 16	0 B ON MAR 01	28 400	1971
1972	6.94 B AT 17:30 CST ON APR 15	6.09 B ON APR 15	0 B ON MAR 01	23 300	1972
1973	0.238 AT 15:08 CST ON MAY 13	0.215 ON MAY 13	0 B ON MAR 01	528	1973
1974	---	21.4 ON MAY 11	0 B ON MAR 01	67 700	1974
1975	32.0 AT 04:35 CST ON MAY 14 *	31.1 ON MAY 13	0 B ON MAR 01	104 000	1975
1976	---	152 ON APR 20 *	0.142 ON OCT 18	269 000	1976
1977	---	1.47 B ON APR 09	0 ON JUL 01	5 460	1977
1978	3.11 B AT 16:46 CST ON APR 07	2.01 B ON APR 07	0 B ON MAR 01	2 520	1978
1979	5.39 AT 19:17 CST ON MAY 31	5.30 ON JUN 01	0 B ON MAR 01	18 400	1979
1980	0.737B AT 16:36 CST ON APR 10	0.573B ON APR 10	0 B ON MAR 01	392	1980
1981	0.765B AT 01:50 CST ON FEB 22	0.034B ON MAR 12	0 ON MAY 21	37.5	1981
1982	3.68 B AT 14:25 CST ON APR 15	3.13 B ON APR 15	0 B ON MAR 01	2 430	1982
1983	1.47 B AT 21:25 CST ON APR 09	1.26 B ON APR 09	0 B ON MAR 01	1 990	1983
1984	0.201B AT 06:00 CST ON MAR 26	0.089B ON MAR 26	0 B ON MAR 01	159	1984
1985	0.862B AT 04:00 CST ON MAR 22	0.429B ON MAR 22	0 B ON MAR 01	684	1985
1986	4.18 AT 23:09 CST ON MAY 30	3.46 ON MAY 07	0 B ON MAR 01	8 410	1986
1987	2.34 B AT 07:49 CST ON APR 05	1.88 B ON APR 05	0 B ON MAR 01	3 350	1987
1988	0.088 AT 12:00 CST ON APR 09	0.083 ON APR 09	0 B ON MAR 01	117	1988
1989	0.892B AT 19:39 CST ON APR 03	0.676B ON APR 03	0 B ON MAR 01	380	1989
1990	0.259 AT 18:21 CST ON MAR 13	0.221B ON MAR 13	0 B ON MAR 01	100	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		22 800	MEAN

POPLAR RIVER AT OUTLET OF WEAVER LAKE - STATION NO. 05RE001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	---	---	---	---	11.8	13.0	---	1967
1968	11.9	10.9	9.55	17.7	122	145	98.1	82.6	76.3	64.9	65.7	45.0	62.6	1968
1969	25.8	18.4	14.9	34.9	94.0	92.5	64.3	141	177	153	88.4	39.8	79.0	1969
1970	19.7	15.9	13.2	11.7	41.3	32.8	35.9	26.7	16.2	20.3	33.9	29.1	24.8	1970
1971	21.7	16.3	13.2	35.5	141	53.7	22.0	25.0	17.3	14.6	22.6	24.9	34.2	1971
1972	20.1	15.3	13.9	17.9	196	80.2	27.0	15.3	10.6	9.84	10.9	11.8	36.0	1972
1973	11.9	11.7	11.2	16.3	71.0	52.6	37.6	17.8	12.1	17.6	28.5	27.6	26.4	1973
1974	18.0	14.8	13.8	17.9	141	98.3	26.8	12.2	11.2	16.3	20.9	18.0	34.2	1974
1975	14.7	13.0	11.3	12.3	63.2	85.9	62.3	49.6	96.4	70.4	37.0	21.1	44.9	1975
1976	15.1	12.8	11.6	24.5	33.9	32.3	19.3	9.79	7.30	6.80	7.78	7.71	15.7	1976
1977	7.10	7.15	6.93	9.83	22.9	18.8	36.5	40.8	38.0	43.1	31.5	20.6	23.7	1977
1978	15.1	12.6	11.2	12.2	47.5	48.7	38.0	27.8	23.7	50.4	53.3	32.5	31.2	1978
1979	20.1	15.0	13.2	18.2	145	246	76.5	20.6	13.5	13.8	17.3	17.5	51.4	1979
1980	15.8	14.1	12.6	16.6	50.8	24.0	12.9	11.3	14.6	21.6	22.5	17.3	19.5	1980
1981	13.9	11.8	10.3	11.1	25.6	48.6	83.1	52.6	16.2	13.1	26.7	37.4	29.4	1981
1982	22.9	16.7	13.4	18.4	125	99.5	50.2	24.5	18.3	18.3	22.5	21.3	37.7	1982
1983	18.2	16.0	14.9	16.3	100	101	109	48.1	18.3	14.5	14.4	13.8	40.7	1983
1984	13.5	12.9	11.9	18.5	54.3	54.8	44.1	22.5	14.0	18.4	27.1	24.0	26.4	1984
1985	20.9	17.9	14.9	19.4	96.1	74.6	50.7	26.5	26.2	35.7	40.1	26.1	37.5	1985
1986	18.9	16.2	14.6	40.6	147	68.5	23.5	15.7	14.7	16.8	19.9	19.7	34.8	1986
1987	18.1	16.0	15.1	51.2	91.0	53.6	24.3	17.5	18.8	16.3	15.9	14.5	29.4	1987
1988	8.98	7.76	7.15	11.7	29.9	34.7	16.8	7.39	4.49	3.80	3.73	3.32	11.6	1988
1989	3.15	2.99	3.13	3.35	5.51	19.6	26.6	21.0	16.1	16.3	27.3	18.4	13.7	1989
1990	12.7	10.7	9.44	30.6	203	106	40.7	16.6	7.25	4.29	3.63	3.65	37.6	1990
MEAN	16.0	13.4	11.8	20.3	89.0	72.7	44.6	31.9	29.1	28.7	27.2	21.2	34.0	MEAN

LOCATION - LAT 52 46 40 N
LONG 096 45 10 W
DRAINAGE AREA, 6 850 km²
NATURAL FLOW

POPLAR RIVER AT OUTLET OF WEAVER LAKE - STATION NO. 05RE001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	---	---	---	1967
1968	189 AT 23:00 CST ON MAY 30	185 ON MAY 30	8.92 ON APR 05	1 980 000	1968
1969	230 AT 04:00 CST ON AUG 29	223 ON AUG 25	13.2 ON APR 07	2 490 000	1969
1970	53.5 AT 18:32 CST ON MAY 23	53.2 ON MAY 23	10.7 ON APR 20	782 000	1970
1971	175 AT 22:20 CST ON MAY 10	174 ON MAY 09	12.2 ON APR 11	1 080 000	1971
1972	243 AT 16:30 CST ON MAY 11	242 ON MAY 11	8.33 ON OCT 16	1 140 000	1972
1973	93.2 AT 10:00 CST ON MAY 24	85.2 ON MAY 21	10.9 ON MAR 22	834 000	1973
1974	161 AT 10:00 CST ON MAY 27	161 ON MAY 26	9.46 ON AUG 26	1 080 000	1974
1975	106 AT 11:34 CST ON SEP 22	103 ON SEP 13	10.5 ON APR 12	1 420 000	1975
1976	---	39.1E ON APR 29	5.72 ON OCT 04	497 000	1976
1977	56.9 AT 13:06 CST ON JUL 22	56.4 ON JUL 23	6.65 ON MAR 23	748 000	1977
1978	66.3 AT 11:13 CST ON MAY 30	64.3 ON MAY 30	10.8 ON MAR 28	903 000	1978
1979	311 AT 13:28 CST ON JUN 08 *	308 ON JUN 08 *	12.0 ON APR 13	1 620 000	1979
1980	59.7 AT 04:20 CST ON MAY 18	58.3 ON MAY 13	9.57 ON AUG 21	617 000	1980
1981	---	92.9A ON JUL 05	9.53 ON MAR 26	927 000	1981
1982	162 AT 11:36 CST ON MAY 15	157 ON MAY 15	11.8 E ON MAR 10	1 190 000	1982
1983	150 AT 01:28 CST ON MAY 30	144 ON MAY 30	13.4 ON OCT 17	1 280 000	1983
1984	72.6 AT 22:11 CST ON MAY 31	68.5 ON JUN 03	11.7 A ON MAR 27	834 000	1984
1985	122 AT 19:06 CST ON MAY 17	119 ON MAY 17	13.4 ON APR 12	1 180 000	1985
1986	167 AT 08:26 CST ON MAY 15	164 ON MAY 14	14.1 ON SEP 07	1 100 000	1986
1987	126 AT 09:10 CST ON MAY 01	125 ON MAY 01	13.7 ON DEC 31	927 000	1987
1988	48.8 AT 18:54 CST ON JUN 07	46.0 ON JUN 07	3.09 ON OCT 23	368 000	1988
1989	34.0 AT 18:38 CST ON JUL 02	33.3 ON JUL 01	2.85A ON FEB 03 *	431 000	1989
1990	229 AT 21:46 CST ON MAY 12	227 ON MAY 13	3.06 ON OCT 27	1 180 000	1990
				1 070 000	MEAN

A - MANUAL GAUGE
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
(SEE REFERENCE INDEX)

PORTAGE DIVERSION NEAR OAKLAND - STATION NO. 05LL018

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	0	57.1	42.5	0	0	0	0	0	---	---	12.4	1970
1971	---	---	0	11.3	0	0	0	0	0	0	---	---	1.38	1971
1972	---	---	7.09	103	7.47	0	0	0	0	0	---	---	14.5	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	144	97.0	9.98	3.22	0	0	0	---	---	31.6	1974
1975	---	---	0	43.7	145	61.8	0.166	0	0	0	---	---	31.3	1975
1976	---	---	0	475	211	4.11	0	0	0	0	---	---	85.3	1976
MEAN	---	---	1.01	119	71.9	10.8	0.475	0	0	0	---	---	25.2	MEAN

LOCATION - LAT 50 06 30 N
LONG 098 22 50 W
REGULATED SINCE 1970

REMARKS - LOCAL RUNOFF IS NOT INCLUDED: ONLY DIVERTED FLOWS ARE MONITORED

PORTAGE DIVERSION NEAR OAKLAND - STATION NO. 05LL018

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	294 AT 07:00 CST ON APR 26	262 ON APR 26	0 ON MAR 01 *	262 000	1970
1971	---	71.6 ON APR 19	0 ON MAR 01	29 200	1971
1972	---	237 ON APR 16	0 ON MAR 01	307 000	1972
1973	---	0 ON MAR 01	0 ON MAR 01	0	1973
1974	527 AT 04:00 CST ON APR 23	524 ON APR 23	0 ON MAR 01	669 000	1974
1975	256 AT 06:40 CST ON MAY 03	253 ON MAY 03	0 ON MAR 01	663 000	1975
1976	733 AT 12:30 CST ON APR 19 *	728 ON APR 19 *	0 ON MAR 01	1 810 000	1976
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		534 000	MEAN

PORTAGE DIVERSION NEAR PORTAGE LA PRAIRIE - STATION NO. 05LL019

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	0	57.1	42.4	0	0	0	0	0	---	---	24.8	1970
1971	---	---	0	12.1	0	0	0	0	0	0	---	---	2.98	1971
1972	---	---	7.59	102	7.79	0	0	0	0	0	---	---	28.9	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	143	93.6	10.4	3.43	0	0	0	---	---	61.5	1974
1975	---	---	0	43.6	144	63.5	0	0	0	0	---	---	62.9	1975
1976	---	---	0	469	198	2.29	0	0	0	0	---	---	166	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	1.62	0	0	0	0	0	0	---	---	0.39	1978
1979	---	---	0	65.6	147	34.2	0	0	0	0	---	---	61.8	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	---	0	0	0	0	---	---	---	---	---	---	0	1981
1982	---	---	0	14.0	0	0	---	---	---	---	---	---	3.45	1982
1983	---	---	0	55.6	5.93	0	---	---	---	---	---	---	15.2	1983
1984	---	---	0	0	0	0	---	---	---	---	---	---	0	1984
1985	---	---	17.7	2.95	0	0	---	---	---	---	---	---	5.22	1985
1986	---	---	6.02	22.1	15.8	0	---	---	---	---	---	---	11.0	1986
1987	---	---	0	56.4	0	0	---	---	---	---	---	---	13.9	1987
1988	---	---	0	0	0	0	---	---	---	---	---	---	0	1988
1989	---	---	0	3.80	0	0	---	---	---	---	---	---	0.93	1989
1990	---	---	0	0	0	0	---	---	---	---	---	---	0	1990
MEAN	---	---	1.49	49.9	31.2	5.26	0.31	0	0	0	---	---	21.9	MEAN

LOCATION - LAT 49 58 00 N
LONG 098 22 50 W REGULATED SINCE 1970

REMARKS - LOCAL RUNOFF IS NOT INCLUDED: ONLY DIVERTED FLOWS ARE MONITORED

PORTAGE DIVERSION NEAR PORTAGE LA PRAIRIE - STATION NO. 05LL019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	---	262 E ON APR 26	0 ON MAR 01 *	262 000	1970
1971	---	76.5 ON APR 19	0 ON MAR 01	31 400	1971
1972	---	228 ON APR 16	0 ON MAR 01	305 000	1972
1973	---	0 ON MAR 01	0 ON MAR 01	0	1973
1974	---	515 ON APR 23	0 ON MAR 01	649 000	1974
1975	252 AT 03:10 CST ON MAY 03	244 ON MAY 03	0 ON MAR 01	663 000	1975
1976	---	736 E ON APR 19 *	0 ON MAR 01	1 750 000	1976
1977	---	0 ON MAR 01	0 ON MAR 01	0	1977
1978	52.5 AT 09:15 CST ON APR 11	30.0 ON APR 11	0 ON MAR 01	4 210	1978
1979	357 AT 07:42 CST ON APR 30	353 ON APR 30	0B ON MAR 01	652 000	1979
1980	---	0 ON MAR 01	0 ON MAR 01	0	1980
1981	---	0 ON MAR 01	0 ON MAR 01	0	1981
1982	142 AT 23:43 CST ON APR 17	142 ON APR 17	0B ON MAR 01	36 300	1982
1983	---	207 B ON APR 11	0B ON MAR 01	160 000	1983
1984	---	0 ON MAR 01	0 ON MAR 01	0	1984
1985	---	147 B ON MAR 29	0B ON MAR 01	55 000	1985
1986	534 AT 00:43 CST ON APR 01 *	137 A ON APR 01	0B ON MAR 01	116 000	1986
1987	493 B AT 15:45 CST ON APR 07	271 ON APR 08	0B ON MAR 01	146 000	1987
1988	0 AT 00:01 CST ON MAR 01	0 ON MAR 01	0 ON MAR 01	0	1988
1989	67.4B AT 17:32 CST ON APR 18	42.8B ON APR 18	0B ON MAR 01	9 850	1989
1990	---	0 ON MAR 01	0 ON MAR 01	0	1990
	A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		230 000	MEAN

RAT CREEK NEAR MACDONALD - STATION NO. 05LL021

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	6.39	2.01	0.103	0.002	0	0	0	---	---	1.05	1974
1975	---	---	0	0.991	0.413	0.074	0.021	0.003	0	0	---	---	0.186	1975
1976	---	---	0.002	2.95	0.083	0.032	0.001	0	0	0	---	---	0.375	1976
1977	---	---	0	0.002	0.009	0.003	0.002	0	0.001	0.004	---	---	0.003	1977
1978	---	---	0	0.716	0.090	0.047	0.109	0.002	0.001	0	---	---	0.119	1978
1979	---	---	0	5.94	2.49	0.243	0.002	0.001	0	0	---	---	1.07	1979
1980	---	---	0	0.183	0.001	0	0	0	0	0	---	---	0.022	1980
1981	---	0.030	0.035	0.029	0.030	0.017	0.001	0	0	0.017	---	---	0.016	1981
1982	---	---	0.033	0.368	0.221	0.054	0.160	0.004	0	0	---	---	0.105	1982
MEAN	---	0.030	0.008	1.95	0.594	0.064	0.033	0.001	0	0.002	---	---	0.327	MEAN

LOCATION - LAT 49 59 19 N DRAINAGE AREA, 300 km²
LONG 098 27 51 W NATURAL FLOW

REMARKS - PUBLISHED AS "WILLOW BEND CREEK" PRIOR TO 1979. THE 1981 MAX AND MIN DAILY DISCHARGE OF .147 AND 0 M3/S OCCURRED IN FEB

RAT CREEK NEAR MACDONALD - STATION NO. 05LL021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	34.0 B ON APR 18	0B ON MAR 01 *	22 200	1974
1975	---	5.15 ON APR 14	0B ON MAR 01	3 930	1975
1976	---	15.4 B ON APR 05	0B ON MAR 01	7 950	1976
1977	---	0.071 ON MAY 23	0B ON MAR 01	53.9	1977
1978	---	2.24 B ON APR 13	0B ON MAR 01	2 520	1978
1979	---	43.6 B ON APR 22 *	0B ON MAR 01	22 700	1979
1980	---	0.578B ON APR 09	0B ON MAR 01	476	1980
1981	0.160 AT 00:00 CST ON MAY 29	0.096 ON MAY 29	0 ON APR 28	343	1981
1982	5.24 AT 22:20 CST ON JUL 28 *	1.42 ON JUL 29	0B ON MAR 01	2 210	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		6 930	MEAN

RAT RIVER NEAR OTTERBURNE - STATION NO. 05OE001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	6.51	3.92	2.16	2.57	6.44	13.6	8.84	0.850	---	1912
1913	0.425	0.283	0.283	17.0	5.46	2.10	2.28	0.677	0.583	1.29	0.850	0.566	2.64	1913
1914	0.028	0.028	0.057	2.12	3.51	2.59	1.24	0.213	0.510	0.875	0.712	0.142	1.00	1914
1915	0	0	0.057	2.69	3.48	1.43	1.10	0.133	0.113	0.703	0.705	0.142	0.883	1915
1916	0.085	0.113	0.113	14.4	8.17	2.16	1.17	0.483	0.329	0.866	0.797	0.170	2.39	1916
1917	0.080	0.038	0.093	4.70	3.21	1.04	0.805	0.129	0.080	0.305	0.924	0.199	0.967	1917
1918	---	---	---	2.07	1.51	2.17	0.685	0.554	0.320	0.662	1.34	0.214	---	1918
1919	0.070	0	0.088	5.10	2.74	1.29	3.18	0.983	1.63	0.810	0.339	0.141	1.37	1919
1920	0.046	0.072	2.11	11.4	4.28	4.40	0.233	0.009	0.042	---	---	---	---	1920
1922	---	---	---	4.22	8.89	3.98	0.589	0.122	1.08	1.04	1.67	---	---	1922
1923	---	---	---	---	17.6	2.09	1.67	0.868	0.878	1.19	0.994	---	---	1923
1924	---	---	---	---	18.6	1.70	0.751	1.35	0.464	1.93	---	---	---	1924
1925	---	---	---	12.0	5.37	41.1	14.5	2.20	2.43	3.65	---	---	---	1925
1926	---	---	---	5.00	2.20	4.07	4.40	0.971	2.95	12.9	---	---	---	1926
1927	---	---	---	38.8	52.2	18.6	5.75	1.19	1.38	1.85	---	---	---	1927
1928	---	---	---	3.54	2.54	4.59	14.2	4.80	0.821	0.840	---	---	---	1928
1929	---	---	---	---	2.32	2.78	0.498	0.063	0.043	0.406	---	---	---	1929
1930	---	---	---	---	8.83	1.65	2.47	0.177	0.061	0.949	---	---	---	1930
1931	---	---	---	9.65	4.70	1.82	0.525	0.219	0.447	1.02	1.58	---	---	1931
1932	---	---	---	---	3.38	0.647	0.749	0.105	0.171	0.819	---	---	---	1932
1933	---	---	---	12.6	2.55	5.03	0.402	0.023	0.152	0.470	---	---	---	1933
1934	---	---	---	3.35	1.29	0.882	0.243	0.002	0.070	0.466	---	---	---	1934
1935	---	---	---	---	3.10	1.65	0.837	0.175	0.196	0.413	---	---	---	1935
1936	---	---	---	---	2.28	0.632	0.044	0	0.228	---	---	---	---	1936
1942	---	---	---	---	---	1.57	0.388	0.308	3.01	1.10	---	---	---	1942
1943	---	---	---	15.4	6.52	11.5	3.84	0.547	0.523	0.384	---	---	---	1943
1944	---	---	---	2.71	1.98	9.21	5.65	6.71	18.3	3.08	11.1	---	---	1944
1945	---	---	---	25.9	11.8	2.70	2.57	1.04	7.37	6.97	---	---	---	1945
1946	---	---	---	16.1	3.34	0.809	0.850	0.057	0.684	1.92	---	---	---	1946
1947	---	---	---	11.8	6.11	9.09	2.92	4.88	1.19	3.69	---	---	---	1947
1948	---	---	---	20.5	14.1	1.62	2.08	3.34	0.823	0.364	0.635	0.324	---	1948
1949	0.222	0.187	0.174	6.34	4.37	1.58	0.260	1.69	0.351	3.55	3.85	0.758	1.95	1949
1950	0.340	0.368	0.289	14.6	63.6	8.88	9.34	2.22	4.68	9.74	3.85	0.713	9.99	1950
1951	0.460	0.280	0.609	13.8	9.94	3.04	0.437	0.541	1.03	0.984	0.635	0.266	2.66	1951
1952	0.048	0.028	0.063	2.68	1.24	0.772	0.578	0.345	0.007	0.150	0.399	0.209	0.541	1952
1953	0.038	0.010	0.233	1.51	1.95	6.20	3.24	0.465	0.549	0.618	0.731	0.319	1.32	1953
1954	0.119	0.173	0.364	4.95	12.4	16.0	1.85	0.414	0.756	0.992	0.813	0.625	3.29	1954
1955	0.340	0.226	0.266	14.1	7.27	5.65	1.95	0.546	0.210	0.866	0.755	0.290	2.70	1955
1956	0.118	0.133	0.127	8.95	9.92	3.69	2.03	2.93	12.5	2.41	5.59	1.21	4.12	1956
1957	0.501	0.288	3.78	16.8	10.8	14.3	16.6	1.32	0.761	0.609	0.761	0.377	5.59	1957
1958	0.106	0.068	0.423	1.64	1.33	0.868	3.02	0.286	0.047	0.599	0.728	0.392	0.798	1958
1959	0.089	0.038	0.093	7.68	11.3	18.6	3.79	1.49	1.66	7.53	4.63	0.826	4.82	1959
1960	0.353	0.306	0.223	22.6	9.22	3.93	1.71	0.262	0.221	0.170	0.839	0.372	3.33	1960
1961	0.338	0.140	1.42	3.58	3.45	0.490	0.056	0.032	0.039	0.166	0.157	0.070	0.832	1961
1962	0.029	0.062	0.119	4.10	9.49	11.6	2.34	3.44	0.978	0.832	1.33	0.830	2.94	1962
1963	0.216	0.009	1.47	9.43	5.42	11.3	8.89	3.78	0.290	0.322	0.513	0.312	1.51	1963
1964	0.288	0.576	0.056	8.53	11.2	7.36	4.55	0.380	0.334	1.42	0.784	0.324	2.98	1964
1965	0.087	0.113	0.085	18.1	15.4	7.76	4.40	0.637	2.19	3.43	3.57	1.49	4.78	1965
1966	0.784	0.780	2.33	49.9	21.2	9.18	10.5	3.36	4.66	1.26	1.17	0.398	8.78	1966
1967	0.307	0.225	0.715	41.7	21.0	1.96	0.464	0.102	0.044	0.121	0.159	0.184	5.57	1967
1968	0.071	0.070	1.15	4.36	5.27	4.99	6.58	5.43	6.91	2.94	2.23	0.611	3.39	1968
1969	0.264	0.225	0.405	19.8	10.9	3.25	1.79	0.904	0.376	1.66	1.00	0.438	3.42	1969
1970	0.267	0.167	0.221	9.51	26.8	14.8	1.48	0.106	0.463	0.699	1.89	0.347	4.75	1970
1971	0.223	0.104	0.273	11.0	5.66	1.63	0.480	0.210	0.036	0.538	0.794	0.275	1.77	1971
1972	0.153	0.037	0.568	4.44	4.26	0.708	0.042	0.108	0.348	0.891	0.875	0.086	1.04	1972
1973	0.029	0.020	1.57	1.95	1.59	1.31	1.03	0.697	0.454	2.71	1.33	0.424	1.10	1973
1974	0.082	0.219	0.169	23.1	31.3	12.4	0.430	0.138	0.186	0.305	0.378	0.204	5.75	1974
1975	0.200	0.095	0.232	2.12	4.28	2.13	2.83	0.006	0.008	0.101	0.357	0.113	1.05	1975
1976	0.075	0.083	0.198	4.19	1.61	1.73	0.321	0.004	0	0.194	0.020	0	0.640	1976
1977	0	0	0.068	0.906	0.770	0.775	0.251	0.093	0.499	1.26	0.725	0.123	0.457	1977
1978	0.112	0.055	0.403	9.79	4.43	0.634	0.359	0.029	0.007	0.041	0.212	0.103	1.34	1978
1979	0.040	0.014	0.058	10.8	12.9	5.37	0.316	0.044	0.121	0.053	0.289	0.118	2.52	1979
1980	0.082	0.065	0.132	4.06	0.998	0.077	0	0	0.088	0.756	0.749	0.141	0.592	1980
1981	0.015	0.141	1.32	1.50	0.994	1.94	0.993	0.422	0.912	2.71	2.31	0.777	1.17	1981
1982	0.050	0.029	0.820	10.7	6.91	6.96	5.36	2.50	0.604	4.02	1.63	0.835	3.37	1982
1983	0.297	0.202	6.74	15.9	4.46	3.14	2.35	0.161	0.089	0.235	0.550	0.141	2.86	1983
1984	0.013	0.003	0.599	3.42	1.54	3.49	3.00	0.248	0.009	0.153	0.382	0.106	1.08	1984
1985	0.022	0.003	1.69	2.52	2.67	1.81	0.973	0.892	1.86	1.93	1.20	0.411	1.34	1985
1986	0.230	0.261	2.90	17.2	27.6	2.28	1.87	0.571	0.569	1.86	0.942	0.604	4.81	1986
1987	0.388	0.246	2.67	18.2	3.02	0.976	0.385	0.125	0.004	0.142	0.104	0.096	2.18	1987
1988	0.017	0	0.062	2.13	0.543	0.113	0.001	0.049	0	0.015	0.006	0	0.259	1988
1989	0	0	0	2.31	1.46	1.12	0.670	0.034	0.024	0.002	0.006	0.001	0.469	1989
1990	0	0	0.532	3.51	1.78	4.49	2.80	0.052	0	0.001	0.006	0	1.10	1990
MEAN	0.166	0.134	0.784	10.6	8.49	4.90	2.59	0.985	1.34	1.74	1.45	0.366	2.63	MEAN

LOCATION - LAT 49 27 42 N DRAINAGE AREA 1 340 km²
LONG 097 00 26 W REGULATED SINCE 1959

RAT RIVER NEAR OTTERBURNE - STATION NO. 05OE001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	19.3 ON APR 23	0.283B ON FEB 01	83 400	1913
1914	---	7.99 ON APR 23	0.028B ON JAN 01	31 700	1914
1915	---	5.21 ON MAY 05	0 B ON JAN 01 *	27 800	1915
1916	---	29.2 ON APR 19	0.085B ON JAN 01	75 600	1916
1917	---	7.31 ON APR 24	0.028B ON FEB 11	30 500	1917
1918	---	3.79 ON JUN 11	---	---	1918
1919	---	7.82B ON APR 09	0 B ON FEB 01	43 100	1919
1920	---	17.0 ON APR 18	0 B ON JAN 21	---	1920
1922	---	15.0 ON MAY 25	---	---	1922
1923	---	95.7 R ON APR 26	---	---	1923
1924	---	---	---	---	1924
1925	---	88.1 ON JUN 12	---	---	1925
1926	---	16.2 ON OCT 27	---	---	1926
1927	---	130 ON MAY 14	---	---	1927
1928	---	22.8 ON JUL 28	---	---	1928
1929	---	---	---	---	1929
1930	---	---	0 ON SEP 08	---	1930
1931	---	---	---	---	1931
1932	---	---	---	---	1932
1933	---	20.2 B ON APR 16	0 ON AUG 19	---	1933
1934	---	---	0 ON AUG 03	---	1934
1935	---	---	---	---	1935
1936	---	---	0 ON JUL 14	---	1936
1942	---	---	---	---	1942
1943	---	24.9 ON APR 14	---	---	1943
1944	---	37.9 ON SEP 07	0 B ON APR 01	---	1944
1945	---	50.7 ON MAR 29	---	---	1945
1946	---	26.7 B ON MAR 31	---	---	1946
1947	---	17.8 ON AUG 21	---	---	1947
1948	---	63.7 ON APR 20	---	---	1948
1949	---	9.80B ON APR 07	0.082 ON JUL 18	61 400	1949
1950	---	166 ON MAY 06 *	0.249B ON MAR 28	315 000	1950
1951	---	18.0 B ON APR 08	0.057B ON DEC 30	84 000	1951
1952	---	3.60 ON APR 20	0 ON SEP 08	17 100	1952
1953	---	12.4 ON JUN 05	0 B ON FEB 11	41 700	1953
1954	---	31.1 ON JUN 14	0.085B ON JAN 26	104 000	1954
1955	---	20.6 ON APR 25	0.028 ON AUG 25	85 200	1955
1956	---	27.6 ON APR 26	0.028B ON MAR 30	130 000	1956
1957	---	32.3 ON JUN 30	0.028B ON MAR 16	176 000	1957
1958	---	5.44 ON JUL 07	0.028B ON FEB 03	25 200	1958
1959	---	51.0 ON JUN 13	0.023 ON AUG 09	152 000	1959
1960	---	36.0 ON APR 14	0.011 ON SEP 30	105 000	1960
1961	---	6.06B ON MAR 26	0 B ON FEB 18	26 200	1961
1962	29.0 AT 06:00 CST ON MAY 29	25.7 ON MAY 29	0 B ON JAN 01	92 600	1962
1963	32.8 AT 05:00 CST ON JUN 29	32.0 ON JUN 29	0 B ON FEB 15	111 000	1963
1964	---	24.9 A ON MAY 08	0 B ON MAR 27	94 300	1964
1965	51.5 AT 23:00 CST ON APR 14	51.0 ON APR 14	0.020B ON JAN 20	151 000	1965
1966	90.0 AT 09:30 CST ON APR 05	86.1 ON APR 05	0.266B ON DEC 28	277 000	1966
1967	92.2 AT 17:30 CST ON APR 22 *	88.3 ON APR 22	0.014 ON OCT 17	176 000	1967
1968	15.4 AT 08:15 CST ON MAY 16	15.1 ON MAY 16	0.014B ON FEB 25	107 000	1968
1969	---	40.8 ON APR 12	0.045 ON SEP 03	108 000	1969
1970	37.7 AT 04:00 CST ON MAY 18	36.5 ON MAY 18	0.005 ON AUG 28	150 000	1970
1971	---	27.9 B ON APR 11	0 ON SEP 29	55 700	1971
1972	---	10.6 B ON APR 16	0 B ON FEB 07	33 000	1972
1973	---	3.88 ON OCT 22	0.010B ON FEB 11	34 700	1973
1974	---	57.2 A ON APR 24	0 B ON JAN 12	181 000	1974
1975	21.6 AT 15:00 CST ON JUL 01	19.5 ON JUL 01	0 ON AUG 22	33 000	1975
1976	---	5.55 ON APR 15	0 ON AUG 05	20 200	1976
1977	3.03 AT 03:17 CST ON MAY 31	2.38 ON MAY 31	0 B ON JAN 01	14 400	1977
1978	16.4 B AT 04:05 CST ON APR 12	16.3 B ON APR 12	0 ON AUG 31	42 400	1978
1979	43.9 B AT 20:55 CST ON APR 20	42.3 B ON APR 20	0 ON AUG 21	79 400	1979
1980	9.41 AT 22:43 CST ON APR 07	9.24B ON APR 07	0 ON JUL 05	18 700	1980
1981	3.53B AT 15:30 CST ON NOV 20	3.31 ON OCT 31	0.002B ON JAN 14	37 000	1981
1982	21.4 AT 10:53 CST ON APR 16	20.8 ON APR 16	0.005B ON FEB 14	106 000	1982
1983	28.1 B AT 03:44 CST ON APR 09	27.6 B ON APR 09	0 ON AUG 19	90 100	1983
1984	9.46 AT 18:37 CST ON JUN 09	8.26 ON JUN 09	0 B ON JAN 15	34 100	1984
1985	---	6.59B ON MAR 26	0 B ON FEB 12	42 100	1985
1986	48.3 AT 15:31 CST ON MAY 06	47.5 ON MAY 06	0.088 ON AUG 30	152 000	1986
1987	37.1 AT 00:50 CST ON APR 08	36.4 ON APR 08	0.001 ON AUG 29	68 800	1987
1988	8.12B AT 17:44 CST ON APR 05	6.91B ON APR 05	0 B ON JAN 15	8 190	1988
1989	7.97 AT 19:23 CST ON APR 16	7.00B ON APR 17	0 B ON JAN 01	14 800	1989
1990	10.3 AT 23:39 CST ON JUN 12	9.22 ON JUN 13	0 B ON JAN 01	34 600	1990
				83 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1989

RAT RIVER NEAR ST. MALO - STATION NO. 05OE002

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.098	2.74	5.66	6.38	2.98	1.30	1.75	3.07	---	---	2.99	1959
1960	---	---	0.289	6.83	5.22	3.66	1.69	0.097	0.072	0.024	---	---	2.22	1960
1961	---	---	0.158	1.64	2.19	0.460	0.072	0.022	0.033	0.009	---	---	0.571	1961
1962	---	---	0.085	1.42	4.35	5.01	2.12	3.36	2.57	5.34	---	---	3.03	1962
1963	---	---	0.284	5.60	3.84	6.82	3.59	1.64	0.655	0.201	---	---	2.01	1963
1964	---	---	0.028	3.66	5.84	4.00	2.08	0.211	0.259	0.868	---	---	2.11	1964
1965	---	---	0.028	5.10	7.16	4.51	3.32	0.359	2.18	2.84	---	---	3.18	1965
1966	---	---	0.170	17.5	11.0	5.55	4.68	2.01	2.46	0.720	---	---	5.48	1966
1967	---	---	0.208	14.7	10.1	4.59	0.520	0.147	0	0.066	---	---	3.39	1967
1968	---	---	0.282	3.24	3.61	4.03	5.35	4.23	4.13	1.98	---	---	3.35	1968
1969	---	---	0.323	9.14	6.33	2.48	1.30	0.951	0.408	1.32	---	---	2.77	1969
1970	---	---	0.226	4.67	13.4	8.29	0.542	0.068	0.238	0.846	---	---	3.52	1970
1971	---	---	0.210	5.64	4.39	1.42	0.497	0.279	0.008	0.404	---	---	1.60	1971
1972	---	---	0.143	2.44	3.36	0.496	0.064	0.064	0.228	0.445	---	---	0.903	1972
1973	---	---	0.574	1.53	1.44	1.55	0.865	0.448	0.315	2.09	---	---	1.10	1973
1974	---	---	---	6.60	12.5	5.74	0.199	0.123	0.125	0.248	---	---	---	1974
1975	---	---	0.340	1.24	3.19	2.08	1.64	0.023	0.149	0.040	---	---	1.09	1975
1976	---	---	0.118	2.89	1.23	0.832	0.223	0.020	0.093	0.067	---	---	0.677	1976
1977	---	---	0.003	0.495	0.590	0.682	0.438	0.123	0.614	1.14	---	---	0.510	1977
1978	---	---	0.180	1.90	3.24	0.494	0.406	0.081	0.025	0.104	---	---	1.05	1978
1979	---	---	0.048	3.01	6.91	2.84	0.212	0.039	0.084	0.044	---	---	1.64	1979
1980	---	---	0.104	1.96	0.861	0.031	0.007	0.006	0.168	0.701	---	---	0.476	1980
1981	---	---	0.389	1.12	0.834	1.60	0.620	0.522	1.24	2.72	---	---	1.14	1981
1982	---	---	0.178	5.07	5.60	4.92	2.79	1.58	0.365	2.99	---	---	2.93	1982
1983	---	---	2.19	9.63	3.91	3.01	2.16	0.084	0.019	0.211	---	---	2.63	1983
1984	---	---	0.221	1.93	1.25	2.37	2.69	0.153	0.003	0.064	---	---	1.08	1984
1985	---	---	0.509	1.94	2.45	1.73	0.788	0.695	1.65	1.75	---	---	1.43	1985
1986	---	---	1.60	11.3	14.1	1.97	1.39	0.317	0.596	1.54	---	---	4.09	1986
1987	---	---	1.32	9.93	2.58	0.825	0.397	0.089	0.001	0.001	---	---	1.87	1987
1988	---	---	0.021	1.28	0.352	0.082	0.002	0.001	0	0.001	---	---	0.214	1988
1989	---	---	0	0.369	1.15	1.16	0.624	0.061	0.030	0.002	---	---	0.423	1989
1990	---	---	0.311	1.86	1.60	3.26	1.85	0.009	0	0.001	---	---	1.10	1990
MEAN	---	---	0.343	4.70	4.69	2.81	1.44	0.597	0.640	0.995	---	---	1.98	MEAN

LOCATION - LAT 49 19 04 N DRAINAGE AREA, 854 km²
LONG 096 56 39 W REGULATED SINCE 1959

RAT RIVER NEAR ST. MALO - STATION NO. 05OE002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	14.0 ON JUN 11	0.028B ON MAR 01	63 300	1959
1960	---	13.5 ON APR 21	0 E ON AUG 14 *	47 000	1960
1961	---	4.84 ON APR 29	0.003 ON SEP 15	12 100	1961
1962	---	7.79 ON MAY 24	0.045B ON MAR 01	64 200	1962
1963	---	15.7 ON JUN 26	0.003B ON MAR 01	59 500	1963
1964	---	11.4 ON MAY 06	0.014 ON AUG 22	44 700	1964
1965	---	15.1 ON MAY 06	0.028B ON MAR 01	67 300	1965
1966	---	28.6 ON APR 11	0.170B ON MAR 01	116 000	1966
1967	---	29.9 ON APR 21 *	0 ON AUG 24	71 800	1967
1968	---	7.82 ON SEP 04	0.142B ON MAR 01	70 900	1968
1969	---	17.3 ON APR 20	0.136B ON MAR 01	58 600	1969
1970	---	16.9 ON MAY 16	0.005 ON AUG 24	74 500	1970
1971	---	9.15 ON APR 21	0 ON AUG 16	33 600	1971
1972	---	5.21 ON APR 23	0 B ON MAR 01	19 100	1972
1973	---	3.65 ON OCT 23	0 ON SEP 19	23 300	1973
1974	---	23.0 ON APR 25	0 ON AUG 10	---	1974
1975	---	5.75 ON APR 28	0.006 ON SEP 24	23 000	1975
1976	---	4.39 ON APR 21	0 ON JUL 13	14 300	1976
1977	---	1.64 ON OCT 04	0 B ON MAR 01	10 800	1977
1978	---	7.11 ON APR 19	0 ON AUG 15	22 200	1978
1979	19.2 B AT 14:19 CST ON APR 20	10.7 B ON APR 19	0 ON AUG 13	34 800	1979
1980	3.70 AT 08:00 CST ON APR 19	3.65 ON APR 19	0.004 ON JUL 27	10 100	1980
1981	3.57 AT 20:59 CST ON OCT 26	3.40E ON OCT 31	0.034 ON JUL 29	24 100	1981
1982	13.4 AT 10:16 CST ON APR 15	9.46 ON APR 15	0.036B ON MAR 01	62 000	1982
1983	14.5 AT 21:00 CST ON APR 08	14.1 ON APR 12	0 B ON MAR 01	55 700	1983
1984	7.49 AT 08:29 CST ON JUL 09	6.64 ON JUL 09	0 ON SEP 16	22 900	1984
1985	4.38 AT 09:01 CST ON MAY 13	4.43 ON MAY 13	0.020 ON AUG 03	30 400	1985
1986	21.2 AT 17:38 CST ON MAY 06 *	20.8 ON MAY 06	0.123 ON AUG 27	86 600	1986
1987	20.7 AT 02:12 CST ON APR 06	18.3 ON APR 06	0 ON SEP 06	39 600	1987
1988	2.81 AT 16:41 CST ON APR 14	2.72 ON APR 14	0 B ON MAR 01	4 530	1988
1989	2.92 AT 10:05 CST ON APR 29	1.79 ON MAY 04	0 B ON MAR 01	8 950	1989
1990	5.44 AT 21:20 CST ON JUL 08	5.34 ON JUL 09	0 B ON MAR 01	23 400	1990
				41 900	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

RAT RIVER NEAR SUNDOWN - STATION NO. 05OE004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	7.66	2.58	2.22	0.899	0.606	0.214	0.399	0.670	0.358	---	1960
1961	0.278	0.052	1.09	2.24	2.17	0.360	0.239	0.069	0.120	0.280	0.211	0.160	0.608	1961
1962	0.233	0.203	0.288	5.77	7.05	4.93	1.54	2.17	0.612	0.416	0.684	0.580	1.80	1962
1963	0.198	0.080	1.45	5.09	3.44	5.90	1.86	0.955	0.240	0.942	0.241	0.241	1.72	1963
1964	0.173	0.102	0.106	4.80	4.45	4.76	0.579	0.173	0.612	0.969	0.422	0.145	1.44	1964
1965	0.152	0.166	0.144	3.43	5.79	2.88	2.67	0.593	2.28	3.58	1.10	1.00	1.99	1965
1966	0.575	0.449	1.33	10.7	9.11	1.80	5.82	0.492	1.51	0.531	0.432	0.292	2.77	1966
1967	0.226	0.075	0.509	11.7	4.40	0.482	0.437	0.222	0.030	0.255	0.250	0.278	1.57	1967
1968	0.184	0.121	0.882	3.40	3.12	4.02	3.35	2.90	1.97	1.16	0.739	0.337	1.85	1968
1969	0.246	0.331	0.386	6.55	2.87	2.71	0.928	0.525	0.316	0.936	0.690	0.388	1.40	1969
1970	0.263	0.234	0.310	7.66	10.7	4.52	0.416	0.103	0.622	1.03	1.18	0.300	2.28	1970
1971	0.128	0.084	0.116	5.68	2.57	1.17	0.609	0.237	0.161	0.660	0.689	0.275	1.03	1971
1972	0.158	0.158	0.441	4.94	2.40	0.329	0.159	0.548	0.591	0.699	0.709	0.119	0.934	1972
1973	0.114	0.133	1.15	1.28	1.36	2.04	0.615	0.732	0.909	1.68	0.988	0.372	0.951	1973
1974	0.177	0.229	0.278	10.4	10.6	3.20	0.263	0.075	0.190	0.413	0.411	0.295	2.22	1974
1975	0.299	0.210	0.294	1.73	3.17	2.00	0.868	0.052	0.082	0.244	0.330	0.097	0.783	1975
1976	0.161	0.097	0.218	3.36	0.955	0.963	0.184	0.034	0.019	0.076	0.070	0.017	0.509	1976
1977	0.005	0.015	0.322	1.10	0.766	0.703	0.315	0.148	0.990	1.15	0.787	0.783	0.591	1977
1978	0.243	0.158	0.271	6.93	2.28	0.313	0.463	0.087	0.152	0.283	0.167	0.111	0.951	1978
1979	0.051	0.049	0.153	5.62	4.03	2.18	0.220	0.045	0.184	0.295	0.294	0.216	1.11	1979
1980	0.128	0.054	0.169	2.24	0.761	0.129	0.098	0.062	0.504	0.856	0.427	0.179	0.466	1980
1981	0.158	0.307	0.643	0.945	1.08	1.60	0.423	0.558	2.52	2.54	1.18	0.447	1.03	1981
1982	0.093	0.072	0.366	5.43	3.33	1.88	1.28	0.968	0.292	2.42	0.680	0.860	1.48	1982
1983	0.274	0.288	1.11	4.02	4.08	2.59	1.75	0.512	0.341	0.661	0.373	0.227	1.36	1983
1984	0.113	0.132	0.577	1.58	0.866	4.00	0.756	0.134	0.041	0.935	0.438	0.136	0.805	1984
1985	0.091	0.082	0.541	1.10	2.34	1.71	0.657	0.830	1.55	1.52	0.729	0.264	0.955	1985
1986	0.270	0.278	1.69	8.24	8.67	0.689	1.59	0.547	0.974	0.989	0.620	0.457	2.09	1986
1987	0.352	0.322	1.69	7.02	1.43	0.769	0.410	0.058	0.061	0.333	0.297	0.180	1.07	1987
1988	0.083	0.039	0.125	1.46	0.552	0.087	0.208	0.017	0.006	0.092	0.160	0.063	0.224	1988
1989	0.071	0.049	0.063	1.79	1.53	1.60	0.914	0.440	0.068	0.118	0.150	0.068	0.572	1989
1990	0.083	0.113	0.773	1.62	1.78	2.36	0.822	0.010	0.005	0.081	0.118	0.067	0.653	1990
MEAN	0.186	0.156	0.564	4.59	3.56	2.09	1.01	0.481	0.586	0.856	0.524	0.300	1.24	MEAN

LOCATION - LAT 49 12 35 N DRAINAGE AREA, 398 km²
LONG 096 17 00 W NATURAL FLOW

RAT RIVER NEAR SUNDOWN - STATION NO. 05OE004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	36.5 ON APR 14 *	0 B ON MAR 01 *	---	1960
1961	---	5.32 ON APR 22	0 B ON FEB 28	19 200	1961
1962	---	22.9 ON MAY 24	0.105B ON MAR 25	56 700	1962
1963	---	13.1 B ON APR 10	0 B ON FEB 02	54 300	1963
1964	---	11.8 ON APR 19	0.028B ON FEB 29	45 400	1964
1965	---	14.3 ON MAY 08	0.113B ON APR 08	62 900	1965
1966	---	19.9 ON JUL 05	0.147 ON AUG 05	87 200	1966
1967	---	21.3 ON APR 22	0.014 ON SEP 11	49 600	1967
1968	---	11.4 ON JUN 12	0.025B ON MAR 04	58 600	1968
1969	---	14.4 B ON APR 14	0.139 ON AUG 29	44 200	1969
1970	---	19.8 ON MAY 31	0.051 ON AUG 28	71 900	1970
1971	---	13.6 ON APR 13	0.057 ON AUG 15	32 500	1971
1972	---	12.3 ON APR 19	0.005 ON AUG 07	29 500	1972
1973	---	6.71 ON JUN 22	0.020 ON JUL 23	30 000	1973
1974	36.5 AT 12:19 CST ON APR 22 *	34.3 ON APR 22	0 ON JUL 26	69 900	1974
1975	7.48 AT 03:05 CST ON MAY 02	7.39 ON MAY 02	0 ON SEP 16	24 700	1975
1976	5.24 AT 06:16 CST ON APR 19	5.15 ON APR 19	0 ON AUG 24	16 100	1976
1977	5.34 AT 23:55 CST ON SEP 28	5.31 ON SEP 29	0.003B ON JAN 11	18 600	1977
1978	15.9 AT 11:20 CST ON APR 20	12.4 ON APR 19	0.009 ON SEP 11	30 000	1978
1979	19.2 AT 14:19 CST ON APR 20	17.8 ON APR 20	0.001 ON AUG 15	35 000	1979
1980	6.95B AT 16:57 CST ON APR 09	6.09B ON APR 09	0 ON AUG 01	14 700	1980
1981	13.6 AT 13:10 CST ON SEP 09	13.1 ON SEP 09	0.071 ON AUG 20	32 600	1981
1982	20.3 B AT 18:11 CST ON APR 16	18.8 B ON APR 16	0.061B ON FEB 18	46 600	1982
1983	12.9 B AT 23:48 CST ON APR 06	10.8 ON MAY 15	0.121 ON SEP 08	42 800	1983
1984	16.3 AT 13:16 CST ON JUN 11	15.6 ON JUN 11	0 ON SEP 24	25 500	1984
1985	4.06 AT 03:47 CST ON MAY 16	4.01 ON MAY 16	0.070B ON FEB 18	30 100	1985
1986	23.9 AT 19:19 CST ON MAY 06	21.9 ON MAR 31	0.077 ON AUG 18	66 000	1986
1987	19.7 AT 18:50 CST ON APR 09	19.4 ON APR 09	0.001 ON SEP 11	33 800	1987
1988	---	4.44B ON APR 06	0 ON AUG 27	7 070	1988
1989	4.40 AT 20:01 CST ON APR 19	3.83B ON APR 19	0.003 ON SEP 07	18 000	1989
1990	4.94 AT 15:20 CST ON JUN 21	4.65 ON JUN 21	0.001 ON SEP 02	20 600	1990
				39 100	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

RED DEER RIVER NEAR THE MOUTH - STATION NO. 05LC004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	8.25	89.9	111	74.5	44.6	31.0	24.5	---	---	---	1956
1957	---	---	0	11.3	150	98.8	47.0	23.2	15.8	11.2	---	---	---	1957
1958	---	---	2.61	14.3	39.5	14.4	19.1	13.8	12.1	12.9	---	---	---	1958
1959	---	---	0.048	12.6	37.8	32.5	46.4	25.1	32.6	40.5	45.2	31.8	---	1959
1960	8.46	6.91	6.83	36.1	104	112	59.4	29.3	16.3	---	---	---	---	1960
1961	---	---	2.60	10.8	13.2	10.3	5.85	4.98	0.756	0.373	0.233	---	---	1961
1962	---	---	0	2.46	29.2	25.5	11.7	7.14	6.02	8.04	5.16	2.52	---	1962
1963	0.277	0	0	8.19	14.2	13.6	10.3	7.01	6.21	5.79	3.53	1.77	5.87	1963
1964	0.268	0.119	0.171	5.78	45.7	35.7	16.5	13.2	16.7	14.7	13.8	8.40	14.3	1964
1965	6.28	2.86	2.56	12.5	59.2	136	98.9	64.6	40.2	44.7	16.5	5.72	41.0	1965
1966	5.36	5.85	6.86	27.7	74.9	98.2	101	66.6	40.7	26.5	25.0	13.4	40.9	1966
1967	10.4	8.37	7.40	9.59	78.9	94.6	45.1	24.1	14.0	9.57	8.78	2.09	26.1	1967
1968	0.442	0.099	0.444	12.5	20.3	34.8	42.9	38.5	32.7	22.4	16.7	12.1	19.5	1968
1969	7.64	6.75	6.66	25.9	41.5	26.1	14.3	8.93	5.31	11.3	8.52	5.55	14.1	1969
1970	1.53	0.228	0.059	2.87	74.2	75.8	93.8	63.1	29.2	21.8	44.2	27.9	36.5	1970
1971	18.0	12.2	10.2	46.1	96.7	48.9	29.6	21.4	12.4	12.8	13.1	10.3	26.9	1971
1972	7.96	4.20	5.54	18.3	170	103	49.4	24.7	13.5	9.61	4.41	1.60	34.3	1972
1973	1.02	0.751	0.791	8.67	20.7	55.4	74.9	44.2	24.6	17.2	13.7	10.2	22.8	1973
1974	6.17	6.33	6.73	21.7	136	153	70.3	30.0	21.0	18.4	15.5	10.8	41.5	1974
1975	5.90	4.26	5.13	10.3	74.3	87.3	58.0	32.8	25.5	30.4	26.0	15.5	31.4	1975
1976	9.92	7.93	5.57	22.9	37.9	59.2	83.4	45.1	20.3	17.1	6.73	2.77	26.0	1976
1977	1.43	0.649	0.857	8.99	19.1	14.6	11.9	22.9	25.3	31.5	24.0	14.9	14.7	1977
1978	11.7	6.91	7.67	20.1	71.1	46.3	31.5	20.3	17.3	24.4	21.3	16.4	24.7	1978
1979	12.4	8.36	7.09	19.4	145	169	84.8	34.3	18.2	12.7	8.84	4.65	45.5	1979
1980	4.23	2.58	2.76	8.70	14.0	8.18	7.10	6.43	7.46	10.0	8.90	5.27	7.15	1980
1981	3.58	2.94	3.78	11.4	18.4	14.4	14.2	10.6	5.72	11.2	10.1	11.9	10.5	1981
1982	6.07	2.22	1.37	7.63	25.8	35.9	29.7	25.2	15.8	15.5	9.87	3.78	15.3	1982
1983	6.96	5.95	5.71	11.7	60.2	58.0	90.9	59.1	35.4	24.7	18.0	8.94	32.6	1983
1984	8.26	7.26	6.88	29.9	87.2	139	80.8	34.3	17.6	17.7	19.1	14.5	38.6	1984
1985	10.3	7.74	6.66	34.0	95.4	71.2	47.5	36.6	31.5	28.6	17.4	12.6	33.4	1985
1986	7.63	5.80	5.74	36.5	74.4	59.5	35.2	20.2	10.4	9.86	8.02	7.35	23.5	1986
1987	6.56	5.19	4.39	20.6	28.0	24.7	24.5	16.6	13.7	15.4	12.1	7.54	15.1	1987
1988	4.62	3.46	3.20	29.1	87.5	49.5	24.1	11.3	7.05	4.96	2.76	1.53	19.1	1988
1989	0.545	0.066	0	3.53	10.1	9.12	7.31	6.14	13.5	11.6	9.43	6.61	6.52	1989
1990	4.21	2.33	3.72	17.4	58.4	51.7	42.3	21.9	11.1	7.01	3.25	1.09	18.8	1990
MEAN	6.14	4.42	3.82	16.8	62.1	63.8	45.3	27.2	18.5	17.0	14.4	9.46	24.6	MEAN

LOCATION - LAT 52 52 45 N LONG 101 02 35 W DRAINAGE AREA, 14 500 km² NATURAL FLOW

REMARKS - PRIOR TO 1987 PUBLISHED AS "MOUTH, LAKE WINNIPEGOSIS"

RED DEER RIVER NEAR THE MOUTH - STATION NO. 05LC004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1956	---	150 ON MAY 28	---	---	1956
1957	---	165 ON MAY 10	0 B ON MAR 01 *	---	1957
1958	---	28.9 ON MAY 01	---	---	1958
1959	---	60.0 ON MAY 10	0 B ON MAR 01	---	1959
1960	---	144 ON JUN 02	---	---	1960
1961	---	15.1 ON MAY 18	---	---	1961
1962	---	36.0 ON MAY 30	0 B ON MAR 01	---	1962
1963	---	28.9 ON MAY 19	0 B ON JAN 20	---	1963
1964	---	63.1 ON MAY 24	0.113B ON JAN 21	185 000	1964
1965	---	176 ON JUN 08	2.31 B ON FEB 25	452 000	1965
1966	---	112 ON JUL 21	5.18 B ON JAN 01	1 290 000	1966
1967	---	114 ON MAY 23	0.991B ON DEC 31	1 290 000	1967
1968	69.4 AT 06:50 CST ON JUL 08	54.9 ON JUL 08	0.062B ON MAR 16	825 000	1968
1969	57.2 AT 17:30 CST ON MAY 07	51.8 ON MAY 07	3.20 E ON SEP 18	618 000	1969
1970	118 AT 09:00 CST ON JUL 22	115 ON JUL 22	0.051B ON MAR 16	444 000	1970
1971	106 AT 13:48 CST ON MAY 06	101 ON APR 30	8.47 ON SEP 25	1 150 000	1971
1972	159 AT 10:30 CST ON MAY 15	197 ON MAY 16	1.22 B ON DEC 29	847 000	1972
1973	104 AT 17:58 CST ON JUL 07	88.1 ON JUL 12	0.657B ON MAR 01	1 000 000	1973
1974	192 AT 08:00 CST ON MAY 31	189 ON MAY 31	5.83 B ON JAN 12	720 000	1974
1975	---	97.1 ON JUN 12	3.99 B ON FEB 10	1 310 000	1975
1976	104 AT 18:19 CST ON JUL 05	102 ON JUL 05	2.27 B ON DEC 30	992 000	1976
1977	41.6 AT 04:10 CST ON OCT 17	36.8 ON NOV 03	0.580B ON FEB 03	822 000	1977
1978	82.7 AT 06:00 CST ON MAY 11	79.0 ON MAY 11	6.40 B ON FEB 15	495 000	1978
1979	223 AT 12:03 CST ON JUN 05 *	223 ON JUN 05 *	3.65 B ON DEC 19	779 000	1979
1980	28.3 AT 14:40 CST ON AUG 25	19.4 ON MAY 05	2.37 B ON MAR 05	1 440 000	1980
1981	25.0 AT 19:00 CST ON NOV 07	20.9 ON NOV 13	1.74 ON SEP 20	226 000	1981
1982	62.9 AT 19:34 CST ON AUG 07	47.0 ON JUN 07	1.08 B ON APR 02	312 000	1982
1983	121 AT 16:46 CST ON JUN 14	113 ON JUN 13	4.54 B ON DEC 26	382 000	1983
1984	161 AT 00:52 CST ON JUN 01	151 ON JUN 11	5.11 B ON JAN 01	1 120 000	1984
1985	124 AT 19:31 CST ON JUN 08	110 ON MAY 18	5.94 B ON MAR 14	1 220 000	1985
1986	93.8 AT 10:47 CST ON JUN 12	82.8 ON MAY 16	4.54 B ON MAR 12	1 050 000	1986
1987	41.3 AT 18:58 CST ON APR 26	35.3 ON MAY 05	4.00 B ON MAR 15	740 000	1987
1988	107 AT 13:55 CST ON MAY 12	101 ON MAY 12	0.930B ON DEC 31	478 000	1988
1989	27.2 AT 18:12 CST ON OCT 05	18.4 ON OCT 28	0 B ON FEB 15	605 000	1989
1990	75.8 AT 02:54 CST ON MAY 27	74.3 ON MAY 22	0.519B ON DEC 31	206 000	1990
				593 000	MEAN
				777 000	

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

RED RIVER AT EMERSON - STATION NO. 05OC001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	67.0	49.7	34.3	29.8	32.3	64.6	39.9	22.3	---	1912
1913	14.1	8.55	11.3	378	90.1	49.8	37.9	27.1	34.3	33.6	37.9	24.6	62.0	1913
1914	15.3	13.9	22.7	117	91.9	125	98.7	39.1	37.8	39.0	39.5	28.5	55.8	1914
1915	25.3	24.6	28.1	144	106	142	372	83.5	50.9	51.5	45.4	32.5	92.8	1915
1916	25.4	22.3	25.1	820	588	225	304	145	120	91.0	79.4	56.5	208	1916
1917	35.6	29.6	32.3	397	164	73.3	41.7	18.2	13.2	19.3	25.5	16.0	71.9	1917
1918	6.75	6.27	30.3	68.9	51.4	65.1	28.2	20.7	18.9	11.6	19.1	16.3	28.6	1918
1919	13.3	12.0	16.8	219	112	61.0	221	103	43.4	33.0	22.6	20.6	73.5	1919
1920	23.0	25.6	82.8	520	119	138	95.1	43.7	32.1	34.3	35.1	28.7	97.6	1920
1921	23.0	22.1	32.3	181	73.9	70.2	50.6	25.0	23.8	23.7	20.4	18.7	47.6	1921
1922	13.2	10.7	56.0	361	227	95.6	42.3	18.2	16.9	14.2	20.7	10.6	73.8	1922
1923	8.65	9.27	11.2	287	219	57.0	69.6	23.1	17.0	17.3	17.3	11.3	62.3	1923
1924	6.38	6.71	8.67	80.2	67.5	38.0	25.4	11.5	10.1	20.0	15.0	5.91	26.3	1924
1925	3.99	5.25	30.4	137	46.7	299	96.3	14.7	15.8	26.5	25.2	18.6	59.7	1925
1926	13.2	14.7	47.8	150	38.0	72.9	59.7	13.8	12.8	27.6	23.1	14.0	40.6	1926
1927	11.8	11.1	113	380	415	247	93.8	45.1	42.0	38.8	31.3	22.8	121	1927
1928	17.1	19.0	55.3	215	80.7	93.4	128	54.4	68.6	51.6	45.3	30.9	71.5	1928
1929	29.7	25.0	167	192	75.1	48.0	21.4	12.0	9.14	12.8	13.6	8.33	51.2	1929
1930	5.67	5.07	81.9	247	146	54.5	30.1	10.3	6.10	6.56	7.57	6.68	50.7	1930
1931	4.98	5.65	27.2	95.9	25.0	18.7	10.1	4.46	2.29	2.40	6.25	5.30	17.3	1931
1932	4.71	3.91	30.6	225	54.5	16.6	7.25	1.77	1.13	1.30	3.44	2.52	29.5	1932
1933	1.53	1.40	24.4	165	43.8	29.0	7.10	2.07	1.30	1.38	2.40	1.31	23.3	1933
1934	1.54	0.923	13.9	61.7	18.8	5.55	3.91	1.32	0.673	1.33	2.19	1.18	9.39	1934
1935	0.399	0.763	21.2	94.2	33.2	12.4	30.6	14.6	7.61	3.31	2.20	1.68	18.5	1935
1936	1.61	1.53	1.65	191	73.7	16.5	3.41	2.24	1.89	0.811	0.672	0.947	24.5	1936
1937	0.201	0.034	0.064	57.4	82.3	30.0	23.5	44.3	23.2	11.4	7.95	2.05	23.6	1937
1938	1.51	2.15	41.2	36.3	138	73.1	24.2	6.16	5.48	5.66	5.87	5.15	28.9	1938
1939	5.60	7.23	7.35	105	33.8	18.6	16.0	5.31	6.52	10.1	10.9	7.87	19.5	1939
1940	3.83	4.20	6.35	144	63.2	29.8	10.1	7.23	5.29	6.68	11.1	8.38	24.9	1940
1941	8.84	9.86	10.2	387	88.3	150	40.4	21.4	52.5	86.8	39.3	25.1	76.3	1941
1942	16.0	18.0	55.5	468	254	119	51.2	35.5	88.1	46.5	32.1	21.9	100	1942
1943	22.6	19.8	34.2	655	206	352	184	73.2	51.5	41.7	40.5	26.2	142	1943
1944	18.8	20.8	21.7	123	107	197	193	170	167	82.3	114	77.3	108	1944
1945	36.6	38.7	258	571	245	114	61.9	37.1	50.3	55.9	39.6	28.0	128	1945
1946	26.8	22.4	162	414	117	62.9	89.1	36.0	33.0	47.0	45.8	33.1	89.1	1946
1947	29.2	25.4	29.9	405	238	341	164	57.5	44.5	52.8	46.8	38.1	139	1947
1948	30.7	23.9	24.1	704	568	109	86.9	47.0	28.6	19.1	20.4	15.8	140	1948
1949	12.7	12.9	16.9	417	144	172	96.7	93.1	51.1	32.4	39.3	30.2	93.0	1949
1950	23.4	21.2	26.2	751	2 060	631	286	108	74.1	94.3	58.7	61.2	352	1950
1951	58.1	51.0	64.8	556	306	140	77.6	41.4	55.4	44.8	40.0	54.0	124	1951
1952	50.6	54.2	56.9	486	217	108	166	64.7	39.0	26.8	24.5	19.8	109	1952
1953	17.3	17.3	38.6	115	89.2	252	157	65.2	37.3	25.3	27.2	26.5	72.3	1953
1954	23.6	24.0	38.9	165	120	121	83.8	40.7	25.4	23.1	23.5	20.3	59.1	1954
1955	20.7	18.5	18.5	300	91.4	121	77.6	51.4	26.7	26.7	17.1	12.7	65.1	1955
1956	12.6	12.9	14.4	361	412	154	116	32.7	57.4	19.3	37.5	17.4	104	1956
1957	12.5	11.6	40.9	167	128	119	263	81.6	181	107	95.8	48.5	105	1957
1958	39.2	37.9	52.9	94.3	46.7	40.3	115	20.5	13.0	12.2	13.8	10.1	41.9	1958
1959	9.86	9.70	17.9	171	59.8	77.8	58.5	21.5	15.4	16.0	16.6	17.8	40.9	1959
1960	17.5	15.8	13.4	468	147	88.1	64.6	16.7	17.5	9.68	15.7	10.7	73.3	1960
1961	9.76	8.29	48.7	73.4	68.0	31.5	12.5	7.77	7.35	16.8	11.6	7.43	25.4	1961
1962	5.60	5.66	6.37	418	340	720	455	204	95.3	69.4	64.6	46.7	203	1962
1963	35.3	30.4	42.9	222	106	212	86.4	37.2	34.3	39.5	47.4	28.7	74.3	1963
1964	21.7	21.4	19.4	240	155	269	103	37.4	19.0	48.2	39.3	25.8	82.9	1964
1965	25.8	25.2	26.9	708	526	284	160	66.4	59.3	125	94.5	78.2	182	1965
1966	53.2	46.7	165	1 300	573	198	135	107	81.9	56.4	60.4	51.6	255	1966
1967	46.2	41.8	59.1	720	566	185	102	42.1	26.9	25.7	27.3	19.1	155	1967
1968	13.9	14.0	40.6	138	70.9	171	194	93.2	84.8	62.4	60.7	55.4	83.3	1968
1969	48.0	45.7	61.5	825	777	183	114	58.8	46.9	59.0	57.8	44.5	194	1969
1970	41.2	40.0	44.7	544	650	480	156	45.7	39.6	36.3	47.2	31.0	180	1970
1971	29.3	28.3	55.5	410	155	92.1	82.4	41.4	42.4	114	146	75.9	106	1971
1972	55.6	45.2	193	677	308	180	70.3	70.2	58.3	51.9	48.4	32.7	149	1972
1973	31.5	31.6	165	76.7	48.6	37.1	17.6	22.1	72.7	118	74.0	58.9	63.0	1973
1974	48.5	47.8	57.3	548	840	305	106	92.4	58.1	54.9	60.6	38.5	189	1974
1975	37.2	40.0	46.7	367	773	196	794	133	72.5	68.8	68.2	44.3	222	1975
1976	43.1	46.5	79.1	494	125	67.3	44.0	31.7	20.6	11.0	8.89	5.01	80.7	1976
1977	5.11	5.38	11.1	59.5	14.0	24.4	18.0	7.38	15.4	40.3	31.7	16.6	24.1	1977
1978	34.7	28.0	49.2	1 020	290	110	102	49.0	33.4	27.1	18.3	10.3	148	1978
1979	15.9	16.4	21.9	698	1 390	229	182	95.5	63.1	49.6	55.4	43.3	240	1979
1980	38.3	37.7	41.9	287	68.0	46.2	24.4	13.7	23.7	15.6	18.6	10.2	51.7	1980
1981	8.27	8.40	41.6	51.2	39.3	44.8	77.5	43.0	51.2	68.0	45.6	31.3	43.5	1981
1982	32.6	29.9	49.7	625	251	121	116	69.8	36.1	124	71.8	54.8	132	1982
1983	45.7	39.0	265	355	114	144	184	74.3	79.9	63.1	60.5	46.8	123	1983
1984	39.1	36.1	82.0	542	120	328	96.3	43.3	27.2	32.4	52.7	40.9	121	1984
1985	34.2	32.7	183	209	258	225	209	208	166	128	79.5	59.4	150	1985
1986	57.0	51.3	172	760	631	209	142	80.6	82.6	102	59.0	56.2	201	1986
1987	51.1	45.7	195	637	120	104	88.0	74.0	31.4	23.5	23.7	19.9	118	1987
1988	13.3	14.4	61.9	188	40.9	30.8	13.1	7.98	9.41	9.55	8.77	7.27	33.7	1988
1989	7.45	10.8	11.2	608	195	76.2	32.2	12.2	29.6	12.8	10.6	7.31	84.0	1989
1990	4.88	7.39	32.5	100	47.1	61.7	33.7	13.2	10.4	8.46	8.91	6.57	27.9	1990
MEAN	22.3	21.1	55.9	357	238	140	106	48.5	41.1	40.7	36.2	26.6	94.9	MEAN

LOCATION - LAT 49 00 30 N LONG 097 12 40 W DRAINAGE AREA, 102 000 km² REGULATED INTERNATIONAL GAUGING STATION

RED RIVER AT EMERSON - STATION NO. 05OC001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	725 ON APR 11	7.36 B ON MAR 06	1 960 000	1913
1914	---	206 ON JUN 19	13.9 B ON FEB 01	1 760 000	1914
1915	---	569 ON JUL 09	21.0 B ON JAN 01	2 920 000	1915
1916	---	1 310 ON APR 24	21.4 B ON FEB 13	6 590 000	1916
1917	---	733 ON APR 12	8.50 B ON DEC 31	2 270 000	1917
1918	---	141B ON APR 03	5.30 B ON JAN 31	904 000	1918
1919	---	379 ON JUL 11	11.3 B ON FEB 28	2 320 000	1919
1920	---	756B ON APR 15	19.5 B ON JAN 01	3 090 000	1920
1921	---	362 ON APR 15	14.8 B ON NOV 24	1 500 000	1921
1922	---	535 ON APR 14	10.1 B ON FEB 17	2 330 000	1922
1923	---	736 ON APR 25	6.51 B ON JAN 07	1 970 000	1923
1924	---	179 ON APR 28	4.39 B ON DEC 31	831 000	1924
1925	---	496 ON JUN 21	3.54 B ON FEB 05	1 880 000	1925
1926	---	227B ON APR 01	6.71 ON SEP 07	1 200 000	1926
1927	---	580 ON MAY 16	10.4 B ON FEB 04	2 820 000	1927
1928	---	476 ON APR 06	16.4 B ON JAN 03	4 260 000	1928
1929	---	544 ON APR 01	6.65 B ON NOV 30	1 610 000	1929
1930	---	589 ON APR 10	4.36 ON OCT 09	1 600 000	1930
1931	---	224 ON APR 10	1.04 ON OCT 05	345 000	1931
1932	---	335B ON APR 15	0.680 ON SEP 29	934 000	1932
1933	---	311B ON APR 09	0.708 ON SEP 05	736 000	1933
1934	---	136B ON APR 13	0.425B ON DEC 31	296 000	1934
1935	---	155B ON APR 02	0.340B ON JAN 03	585 000	1935
1936	---	510 ON APR 21	0.481B ON DEC 17	774 000	1936
1937	---	165 ON MAY 04	0.025B ON FEB 06 *	746 000	1937
1938	---	213 ON MAY 19	0.963B ON JAN 07	912 000	1938
1939	---	190B ON APR 10	3.34 ON AUG 18	614 000	1939
1940	---	413B ON APR 21	2.69 B ON JAN 18	787 000	1940
1941	---	787 ON APR 16	7.50 B ON JAN 09	2 400 000	1941
1942	---	790 ON APR 10	13.4 B ON JAN 16	3 160 000	1942
1943	---	835 ON APR 20	16.5 B ON FEB 28	4 470 000	1943
1944	---	348B ON APR 19	17.8 B ON JAN 02	3 400 000	1944
1945	---	833B ON APR 04	25.5 B ON DEC 23	4 040 000	1945
1946	---	682B ON APR 05	18.2 B ON FEB 23	2 810 000	1946
1947	---	804 ON APR 28	22.8 B ON FEB 27	4 390 000	1947
1948	---	1 470 ON APR 27	13.8 B ON DEC 31	4 420 000	1948
1949	---	827 ON APR 15	11.6 B ON JAN 20	2 930 000	1949
1950	---	2 670 ON MAY 13 *	18.7 B ON FEB 01	11 100 000	1950
1951	---	753 ON APR 15	34.0 B ON NOV 25	3 910 000	1951
1952	---	685 ON APR 24	17.0 B ON DEC 29	3 450 000	1952
1953	---	411 ON JUN 28	16.3 B ON JAN 16	2 280 000	1953
1954	---	326B ON APR 17	16.1 B ON DEC 09	1 860 000	1954
1955	680 AT 04:00 CST ON APR 10	663 ON APR 10	10.6 B ON DEC 30	2 050 000	1955
1956	957 AT 07:00 CST ON APR 27	954 ON APR 26	10.6 B ON JAN 01	3 280 000	1956
1957	433 AT 03:00 CST ON JUL 05	433 ON JUL 04	10.2 B ON JAN 31	3 310 000	1957
1958	225 AT 08:00 CST ON JUL 12	223 ON JUL 12	5.78 B ON DEC 21	1 320 000	1958
1959	---	445B ON APR 10	7.70 B ON JAN 01	1 290 000	1959
1960	864 AT 12:00 CST ON APR 13	864 ON APR 13	7.82 ON OCT 10	2 320 000	1960
1961	122B AT 11:00 CST ON MAR 31	121B ON MAR 30	3.45 ON SEP 07	800 000	1961
1962	946 AT 17:30 CST ON APR 25	943 ON APR 25	4.47 B ON JAN 28	6 390 000	1962
1963	391 AT 14:00 CST ON APR 13	388 ON APR 13	19.3 B ON DEC 05	2 340 000	1963
1964	---	496A ON JUN 25	10.3 A ON SEP 20	2 620 000	1964
1965	1 310 AT 06:00 CST ON APR 26	1 310 ON APR 25	24.8 B ON FEB 04	5 730 000	1965
1966	1 890 AT 15:00 CST ON APR 11	1 880 ON APR 11	40.5 B ON DEC 09	7 420 000	1966
1967	951B AT 11:20 CST ON APR 09	940 ON APR 10	15.6 B ON DEC 24	4 890 000	1967
1968	---	394 ON JUL 24	11.4 B ON MAR 02	2 640 000	1968
1969	---	1 550 ON APR 26	31.7 B ON NOV 24	6 110 000	1969
1970	---	1 120 ON APR 28	26.5 B ON DEC 18	5 670 000	1970
1971	---	753 ON APR 16	14.4 ON OCT 02	3 340 000	1971
1972	---	869 ON APR 23	10.6 B ON DEC 11	4 710 000	1972
1973	416B AT 12:40 CST ON MAR 27	402B ON MAR 27	12.7 ON JUL 24	1 990 000	1973
1974	1 230 AT 14:39 CST ON APR 28	1 230 ON APR 28	33.7 B ON DEC 16	5 950 000	1974
1975	1 210 AT 03:14 CST ON MAY 08	1 210 ON MAY 07	27.8 B ON JAN 21	7 000 000	1975
1976	932B AT 05:30 CST ON APR 06	886 ON APR 07	4.08 B ON DEC 15	2 550 000	1976
1977	130 AT 11:00 CST ON APR 10	126 ON APR 10	4.67 B ON MAR 09	761 000	1977
1978	1 430 AT 15:22 CST ON APR 18	1 420 ON APR 18	16.1 B ON DEC 19	4 670 000	1978
1979	2 630 AT 20:00 CST ON MAY 01 *	2 620 ON MAY 01	15.1 B ON FEB 06	7 580 000	1979
1980	---	614 ON APR 10	8.64 B ON DEC 31	1 640 000	1980
1981	174 AT 13:00 CST ON JUL 04	173 ON JUL 04	6.97 B ON FEB 08	1 370 000	1981
1982	966 AT 22:53 CST ON APR 18	963 ON APR 18	27.6 B ON FEB 07	4 160 000	1982
1983	732 AT 00:00 CST ON APR 10	714 ON APR 10	33.4 B ON FEB 27	3 880 000	1983
1984	---	855 ON APR 08	8.09 ON OCT 14	3 820 000	1984
1985	477B AT 00:28 CST ON MAR 30	472B ON MAR 29	32.0 B ON FEB 06	4 730 000	1985
1986	---	969 ON APR 07	47.7 B ON MAR 03	6 330 000	1986
1987	---	1 060 ON APR 09	16.9 B ON DEC 29	3 710 000	1987
1988	461B AT 23:00 CST ON APR 07	444B ON APR 08	5.00 B ON NOV 16	1 070 000	1988
1989	1 210 AT 22:14 CST ON APR 23	1 200 ON APR 23	4.53 B ON DEC 31	2 650 000	1989
1990	136 AT 01:45 CST ON APR 10	155B ON APR 10	3.91 B ON JAN 02	879 000	1990
				2 990 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

RED RIVER FLOODWAY NEAR LOCKPORT - STATION NO. 05QJ014

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	223	256	0	0	0	0	0	---	---	59.6	1969
1970	---	---	0	167	43.7	0	0	0	0	0	---	---	26.0	1970
1971	---	---	0	72.5	0	0	0	0	0	0	---	---	8.8	1971
1972	---	---	0	14.4	0	0	0	0	0	0	---	---	1.7	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	362	414	0	0	0	0	0	---	---	96.7	1974
1975	---	---	0	0	140	0	0	0	0	0	---	---	17.7	1975
1976	---	---	0	78.9	0	0	0	0	0	0	---	---	9.6	1976
MEAN	---	---	0	115	107	0	0	0	0	0	---	---	27.5	MEAN

LOCATION - LAT 50 05 00 N
LONG 096 55 40 W REGULATED SINCE 1969

REMARKS - LOCAL RUNOFF IS NOT INCLUDED: ONLY DIVERTED FLOWS ARE MONITORED

RED RIVER FLOODWAY NEAR LOCKPORT - STATION NO. 05QJ014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	648 AT 13:57 CST ON MAY 01	637 ON MAY 01	0 ON MAR 01 *	1 260 000	1969
1970	682 AT 04:10 CST ON MAY 02 *	682 ON MAY 01	0 ON MAR 01	551 000	1970
1971	---	286 ON APR 14	0 ON MAR 01	188 000	1971
1972	---	65.7 ON APR 18	0 ON MAR 01	37 200	1972
1973	---	0 ON MAR 01	0 ON MAR 01	0	1973
1974	---	1 130 ON APR 24 *	0 ON MAR 01	2 050 000	1974
1975	283 AT 13:50 CST ON MAY 08	279 ON MAY 08	0 ON MAR 01	374 000	1975
1976	---	306 ON APR 11	0 ON MAR 01	205 000	1976
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		583 000	MEAN

RED RIVER FLOODWAY NEAR ST. NORBERT - STATION NO. 05OC017

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	224	237	0	0	0	0	0	---	---	57.4	1969
1970	---	---	0	150	214	0	0	0	0	0	---	---	45.4	1970
1971	---	---	0	54.6	0	0	0	0	0	0	---	---	6.68	1971
1972	---	---	0	4.15	0	0	0	0	0	0	---	---	0.508	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	341	363	0	0	0	0	0	---	---	87.7	1974
1975	---	---	0	0.377	132	0	0	0	0	0	---	---	16.7	1975
1976	---	---	0	73.5	0	0	0	0	0	0	---	---	9.01	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	231	11.9	0	0	0	0	0	---	---	29.8	1978
1979	---	---	0	286	795	0	0	0	0	0	---	---	136	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	---	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	2.55	0	0	0	0	0	0	---	---	0.313	1982
1983	---	---	0	2.26	0	0	0	0	0	0	---	---	0.277	1983
1984	---	---	0	0	0	0	0	0	0	0	---	---	0	1984
1985	---	---	0	0	0	0	0	0	0	0	---	---	0	1985
1986	---	---	0	68.8	4.72	0	0	0	0	0	---	---	9.02	1986
1987	---	---	---	---	---	---	---	---	---	---	---	---	---	1987
1988	---	---	0	0	0	0	0	0	0	0	---	---	0	1988
1989	---	---	---	---	---	---	---	---	---	---	---	---	---	1989
MEAN	---	---	0	75.7	92.5	0	0	0	0	0	---	---	21.0	MEAN

LOCATION - LAT 49 45 24 N
LONG 097 07 36 W REGULATED SINCE 1969

REMARKS - LOCAL RUNOFF IS NOT INCLUDED: ONLY DIVERTED FLOWS ARE MONITORED

RED RIVER FLOODWAY NEAR ST. NORBERT - STATION NO. 05OC017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	626 AT 16:35 CST ON MAY 02	626 ON MAY 03	0 ON MAR 01 *	1 220 000	1969
1970	648 AT 08:46 CST ON MAY 01	646 ON MAY 01	0 ON MAR 01	961 000	1970
1971	---	257 ON APR 14	0 ON MAR 01	141 000	1971
1972	---	33.4 ON APR 18	0 ON MAR 01	10 700	1972
1973	---	0 ON MAR 01	0 ON MAR 01	0	1973
1974	---	1 040 ON APR 24	0 ON MAR 01	1 860 000	1974
1975	274 AT 10:00 CST ON MAY 08	267 ON MAY 07	0 ON MAR 01	355 000	1975
1976	---	292 ON APR 11	0 ON MAR 01	191 000	1976
1977	---	0 ON MAR 01	0 ON MAR 01	0	1977
1978	544 AT 03:00 CST ON APR 16	513 ON APR 16	0B ON MAR 01	632 000	1978
1979	1 190 AT 16:14 CST ON MAY 09 *	1 190 ON MAY 09 *	0 ON MAR 01	2 870 000	1979
1980	---	0 ON MAR 01	0 ON MAR 01	0	1980
1981	---	0 ON MAR 01	0 ON MAR 01	0	1981
1982	18.5 AT 15:50 CST ON APR 18	17.8 ON APR 18	0 ON MAR 01	6 620	1982
1983	31.7 AT 02:14 CST ON APR 11	26.4 ON APR 11	0 ON MAR 01	5 860	1983
1984	---	0 ON MAR 01	0 ON MAR 01	0	1984
1985	---	0 ON MAR 01	0 ON MAR 01	0	1985
1986	281 AT 19:58 CST ON APR 02	278 ON APR 03	0 ON MAR 01	191 000	1986
1987	512 AT 02:00 CST ON APR 10	507 ON APR 10	0 ON MAR 01	---	1987
1988	---	0 ON MAR 01	---	0	1988
1989	137 AT 12:18 CST ON APR 24	136 ON APR 24		---	1989
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		444 000	MEAN

RED RIVER NEAR LOCKPORT - STATION NO. 05OJ010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	---	637	513	816	514	288	156	81.9	76.2	60.5	---	1962
1963	40.2	36.1	60.4	433	186	360	150	66.0	45.1	50.5	66.3	25.3	126	1963
1964	29.1	31.8	31.7	426	336	314	167	57.1	41.8	100	69.3	36.9	136	1964
1965	34.1	35.6	35.6	1 040	997	483	243	98.3	75.8	214	142	106	293	1965
1966	76.5	60.5	163	1 950	1 060	332	274	132	118	67.4	75.7	58.9	364	1966
1967	51.5	48.4	59.4	1 230	901	293	133	56.2	46.5	32.6	51.4	28.1	241	1967
1968	22.1	18.8	62.0	308	140	231	283	194	189	104	53.7	51.6	140	1968
1969	41.2	46.5	57.4	1 200	1 400	368	253	112	79.6	94.2	79.8	50.7	317	1969
1970	54.3	52.9	53.8	861	1 350	785	371	110	65.2	64.8	79.0	54.3	326	1970
1971	40.3	38.8	68.4	737	288	232	174	94.0	76.4	175	205	93.3	185	1971
1972	64.9	61.5	209	910	623	315	135	102	74.6	79.0	67.3	51.3	224	1972
1973	52.2	46.3	217	133	71.0	67.0	42.9	41.0	79.4	167	99.9	76.1	91.7	1973
1974	64.6	62.4	75.9	1 010	1 780	777	265	174	121	105	105	85.7	387	1974
1975	76.7	66.7	81.0	448	1 170	471	996	290	150	174	139	104	350	1975
1976	92.9	88.6	99.3	1 000	563	336	214	124	71.2	44.7	31.8	23.2	224	1976
1977	30.3	29.2	36.6	97.4	57.9	47.3	43.7	35.2	41.1	73.3	50.8	69.6	51.1	1977
1978	55.8	49.2	63.0	1 270	493	164	134	77.3	54.1	47.7	31.4	30.6	205	1978
1979	25.2	29.9	40.9	941	2 200	611	342	144	82.9	61.4	71.4	57.8	386	1979
1980	63.7	60.5	64.6	467	99.1	60.6	45.3	37.6	45.0	43.6	44.4	29.9	87.8	1980
1981	22.1	24.5	75.7	84.0	59.3	83.5	108	51.6	88.1	108	83.0	45.4	69.6	1981
1982	40.8	42.6	60.7	814	495	241	165	108	63.7	162	104	90.6	199	1982
1983	66.5	64.1	350	788	334	266	272	116	124	121	121	68.9	225	1983
1984	61.2	55.8	90.7	644	173	406	156	60.5	42.9	75.0	87.5	60.4	158	1984
1985	55.8	52.8	267	470	377	342	266	285	240	179	117	89.5	229	1985
1986	86.5	77.7	275	1 190	986	331	209	101	93.7	131	83.7	75.2	204	1986
1987	74.8	67.1	189	1 140	206	154	115	116	51.6	47.3	36.1	32.1	185	1987
1988	23.5	20.8	67.7	264	105	86.2	49.0	22.1	22.5	26.2	15.6	14.6	59.5	1988
1989	13.9	19.2	25.8	653	323	102	61.1	21.8	43.1	31.0	20.0	16.7	111	1989
1990	14.8	15.7	56.1	281	116	143	82.8	36.6	25.0	35.8	35.8	22.3	71.9	1990
MEAN	49.1	46.6	105	739	600	318	216	109	83.0	93.0	77.0	55.6	205	MEAN

LOCATION - LAT 50 06 28 N LONG 096 55 54 W DRAINAGE AREA, 278 000 km^2 REGULATED

RED RIVER NEAR LOCKPORT - STATION NO. 05OJ010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	1 720 ON APR 25	---	---	1962
1963	---	782 ON APR 11	24.0B ON DEC 25	3 980 000	1963
1964	---	1 000B ON APR 18	26.2B ON JAN 01	4 320 000	1964
1965	---	1 890 ON APR 19	32.8B ON JAN 09	9 240 000	1965
1966	---	2 570A ON APR 14	51.0B ON MAR 15	11 500 000	1966
1967	---	1 650B ON APR 26	15.0 ON NOV 09	7 610 000	1967
1968	---	490B ON APR 11	16.7B ON MAR 02	4 420 000	1968
1969	---	2 200 ON MAY 01	40.8B ON JAN 10	9 990 000	1969
1970	---	2 040 ON MAY 02	49.0B ON DEC 28	10 300 000	1970
1971	---	1 580B ON APR 13	36.8B ON JAN 11	5 830 000	1971
1972	---	1 130B ON APR 23	41.1B ON DEC 12	7 090 000	1972
1973	---	535B ON MAR 28	30.3 ON SEP 08	2 890 000	1973
1974	2 520 AT 05:40 CST ON APR 26	2 510 ON APR 26	52.4B ON FEB 02	12 200 000	1974
1975	---	1 480 ON MAY 13	62.6B ON FEB 01	11 100 000	1975
1976	1 570B AT 23:30 CST ON APR 08	1 530 ON APR 09	18.3B ON DEC 05	7 070 000	1976
1977	---	186B ON APR 13	19.0 ON AUG 29	1 610 000	1977
1978	---	1 810B ON APR 17	24.0B ON NOV 15	6 460 000	1978
1979	2 790 AT 15:44 CST ON MAY 08 *	2 780 ON MAY 08 *	23.8B ON JAN 16	12 200 000	1979
1980	---	1 010B ON APR 12	19.7B ON DEC 26	2 780 000	1980
1981	---	234 ON JUL 05	19.8B ON JAN 09	2 200 000	1981
1982	---	1 310 ON APR 18	37.3B ON JAN 12	6 280 000	1982
1983	---	1 580B ON APR 10	56.5B ON MAR 03	7 080 000	1983
1984	---	1 100B ON APR 08	38.4 ON OCT 18	5 010 000	1984
1985	---	869B ON APR 03	49.0B ON FEB 05	7 220 000	1985
1986	---	1 760B ON APR 01	65.0B ON MAR 10	9 600 000	1986
1987	2 180 AT 09:50 CST ON APR 08	2 120 ON APR 08	26.0B ON NOV 27	5 830 000	1987
1988	---	541 ON APR 08	11.0B ON DEC 17 *	1 880 000	1988
1989	---	1 430 ON APR 25	12.9B ON DEC 28	3 490 000	1989
1990	---	378B ON APR 09	13.4B ON JAN 05	2 270 000	1990
				6 480 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

RED RIVER NEAR ST. NORBERT - STATION NO. 05OC008

MONTHLY AND ANNUAL MEAN DISCHARGES FOR APR TO MAY IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	---	---	---	---	---	---	---	---	---	---	---	---	---	1979
1987	---	---	---	---	---	---	---	---	---	---	---	---	---	1987
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	---	MEAN

LOCATION - LAT 49 47 10 N LONG 097 08 13 W DRAINAGE AREA, 122 000 km² REGULATED

RED RIVER NEAR ST. NORBERT - STATION NO. 05OC008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO MAY FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	---	1 310 ON MAY 07 *	---	---	1979
1987	---	1 240 ON APR 08	---	---	1987
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

RED RIVER NEAR STE. AGATHE - STATION NO. 05OC012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	---	49.6	44.4	136	35.3	17.2	18.4	---	---	---	1958
1959	---	---	16.8	218	101	121	69.4	27.8	18.1	40.4	---	---	---	1959
1960	---	---	13.9	625	209	119	80.2	22.1	21.9	11.0	19.0	10.2	---	1960
1961	9.11	8.25	52.0	92	84.9	38.8	14.4	9.20	8.54	21.0	14.7	8.77	30.6	1961
1962	5.82	5.42	8.24	532	442	743	504	255	117	71.5	61.9	48.5	233	1962
1963	33.7	30.8	44.7	281	127	273	104	43.8	35.9	40.3	28.5	20.7	88.4	1963
1964	21.4	22.8	19.8	312	197	277	147	46.3	31.7	69.2	44.4	28.6	101	1964
1965	25.0	25.6	26.4	761	666	333	187	74.5	66.6	143	105	101	210	1965
1966	76.2	53.8	147	1 530	747	354	222	114	98.8	55.6	54.0	50.1	283	1966
1967	41.5	36.3	50.7	935	674	219	114	43.1	27.1	27.5	17.1	18.3	184	1967
1968	15.6	12.3	44.1	188	89.6	196	249	174	151	82.3	60.6	51.4	110	1968
1969	40.7	35.2	53.5	815	961	225	141	68.7	49.9	62.5	58.7	44.4	214	1969
1970	40.0	36.3	40.7	645	954	586	225	47.6	41.5	37.6	44.2	31.9	228	1970
1971	29.3	26.6	65.5	604	186	103	84.9	44.6	44.4	112	155	62.0	126	1971
1972	44.0	46.1	101	750	387	190	74.5	73.8	58.0	65.8	42.4	30.1	161	1972
1973	29.3	31.8	192	84.5	54.3	41.4	20.1	20.6	29.6	139	80.9	61.3	69.0	1973
1974	49.1	48.9	56.8	657	1 120	402	113	98.6	73.9	61.4	61.3	38.4	232	1974
1975	35.8	39.2	46.7	367	894	229	837	172	72.6	65.0	60.3	50.5	241	1975
1976	45.6	48.7	68.0	625	153	76.5	47.9	30.6	21.4	10.9	8.30	4.57	94.5	1976
1977	4.07	5.36	10.5	66.9	40.0	27.2	17.0	8.23	12.8	42.0	25.3	40.7	25.1	1977
1978	36.2	31.4	42.3	1 040	430	127	105	58.9	41.1	31.6	19.3	21.7	165	1978
1979	17.5	17.9	22.2	680	1 760	309	199	101	62.7	44.0	50.5	39.5	277	1979
1980	38.8	38.1	43.4	342	70.8	51.3	24.4	17.4	25.8	14.1	10.4	11.3	56.8	1980
1981	7.25	8.98	42.6	54.2	39.4	55.9	87.3	40.7	59.5	77.0	61.0	35.6	47.7	1981
1982	31.2	28.2	42.1	688	304	147	129	78.9	40.5	139	75.6	60.1	147	1982
1983	44.8	40.8	328	527	137	150	208	72.1	87.7	62.7	61.7	47.8	147	1983
1984	39.0	37.2	77.1	586	132	334	113	44.9	32.0	53.9	61.9	43.5	129	1984
1985	33.0	29.8	200	283	290	274	239	236	204	145	87.7	56.2	174	1985
1986	51.1	45.2	180	884	729	259	155	78.4	73.2	104	64.0	56.7	224	1986
1987	54.1	49.2	180	777	131	123	90.8	85.3	29.6	20.5	17.3	20.2	131	1987
1988	15.5	17.5	68.2	203	40.3	35.5	15.6	11.2	9.54	10.7	7.73	7.58	36.7	1988
1989	7.25	8.61	10.8	579	263	84.6	47.2	13.8	29.2	13.5	8.42	6.95	89.0	1989
1990	3.97	6.20	32.4	187	54.1	73.0	45.1	13.8	11.3	8.53	7.61	5.67	37.2	1990
MEAN	30.9	29.0	75.2	529	379	198	147	68.6	52.8	57.3	47.6	35.9	143	MEAN

LOCATION - LAT 49 33 40 N
LONG 097 10 52 W

DRAINAGE AREA, 115 000 km²
REGULATED

RED RIVER NEAR STE. AGATHE - STATION NO. 05OC012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	---	---	---	1958
1959	---	476B ON APR 11	---	---	1959
1960	---	1 060 ON APR 17	---	---	1960
1961	---	150B ON MAR 31	3.85 ON SEP 09	964 000	1961
1962	---	1 260A ON APR 25	4.39B ON FEB 05	7 360 000	1962
1963	552B AT 12:30 CST ON APR 10	507B ON APR 10	19.5 B ON DEC 05	2 790 000	1963
1964	---	654B ON APR 19	16.8 B ON MAR 10	3 200 000	1964
1965	1 280 AT 16:00 CST ON APR 19	1 280 ON APR 19	23.1 B ON JAN 21	6 620 000	1965
1966	---	870A ON APR 15	40.8 B ON MAR 15	8 940 000	1966
1967	1 270B AT 14:00 CST ON APR 09	1 180B ON APR 09	8.64B ON NOV 14	5 790 000	1967
1968	436 AT 17:00 CST ON JUL 25	430 ON JUL 25	9.77B ON MAR 07	3 460 000	1968
1969	1 460 AT 11:39 CST ON MAY 02	1 460 ON MAY 01	32.8 B ON FEB 06	6 740 000	1969
1970	1 450 AT 20:15 CST ON MAY 01	1 450 ON APR 30	27.4 B ON DEC 03	7 190 000	1970
1971	---	1 210B ON APR 13	25.2 B ON FEB 08	3 980 000	1971
1972	971 AT 12:40 CST ON APR 25	968 ON APR 25	27.4 B ON DEC 08	5 080 000	1972
1973	---	473B ON MAR 26	12.9 ON AUG 03	2 180 000	1973
1974	---	1 420 ON APR 25	34.8 B ON DEC 07	7 320 000	1974
1975	---	1 210 ON MAY 11	28.0 B ON JAN 24	7 610 000	1975
1976	1 190B AT 23:00 CST ON APR 08	1 180B ON APR 08	3.82B ON DEC 21	2 990 000	1976
1977	---	133E ON APR 12	3.60B ON JAN 13	791 000	1977
1978	---	1 400 ON APR 21	14.5 B ON NOV 14	5 190 000	1978
1979	2 330 AT 17:45 CST ON MAY 04 *	2 320 ON MAY 04 *	15.2 B ON FEB 04	8 740 000	1979
1980	784 AT 05:57 CST ON APR 12	746B ON APR 12	7.01B ON NOV 18	1 800 000	1980
1981	181 AT 15:41 CST ON JUL 05	180 ON JUL 05	6.78B ON JAN 16	1 500 000	1981
1982	1 070 AT 00:36 CST ON APR 17	1 070 ON APR 17	26.6 B ON FEB 09	4 630 000	1982
1983	1 030B AT 01:00 CST ON APR 11	1 010B ON APR 11	35.1 B ON MAR 02	4 650 000	1983
1984	1 080 AT 19:32 CST ON APR 06	953B ON APR 07	21.2 ON OCT 16	4 070 000	1984
1985	---	672B ON APR 03	29.3 B ON FEB 28	5 480 000	1985
1986	1 430 AT 23:22 CST ON APR 02	1 140A ON APR 03	44.5 B ON MAR 03	7 060 000	1986
1987	1 390 AT 10:30 CST ON APR 08	1 390A ON APR 08	14.7 B ON NOV 19	4 120 000	1987
1988	449 AT 12:00 CST ON APR 08	441B ON APR 08	5.06B ON NOV 21	1 160 000	1988
1989	1 220 AT 00:22 CST ON APR 25	1 220 ON APR 24	3.84B ON DEC 27	2 810 000	1989
1990	---	321B ON APR 10	2.99B ON JAN 06 *	1 170 000	1990
				4 510 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

RENNIE RIVER NEAR RENNIE - STATION NO. 05PG002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.044	3.17	2.95	0.459	0.046	0.055	0.045	0.056	---	---	---	1960
1961	---	---	0.092	0.205	0.904	0.301	0.077	0.058	0.037	0.122	---	---	---	1961
1962	---	---	0	0.255	7.54	3.95	0.836	5.21	2.09	0.043	---	---	---	1962
1963	---	---	0.082	2.01	2.61	3.76	0.547	1.57	0.366	0.247	---	---	---	1963
1964	---	---	0.221	1.99	4.11	0.362	0.412	0.531	0.842	1.82	---	---	---	1964
1965	---	---	0.105	4.01	4.02	0.548	1.08	0.379	0.377	---	---	---	---	1965
1966	---	---	0.300	4.88	5.99	1.03	2.28	0.062	0.122	0.167	0.248	0.323	---	1966
1967	0.311	0.251	0.184	1.55	3.04	0.017	0.093	2.04	0.428	0.021	0.019	0.047	0.837	1967
1968	0.112	0.101	0.084	1.90	1.87	1.48	1.45	0.224	0.491	1.86	0.827	0.403	0.903	1968
1969	0.280	0.259	0.160	1.37	1.86	0.161	0.200	0.151	0.141	0.107	0.105	0.080	0.407	1969
1970	0.147	0.132	0.149	0.680	5.05	2.26	0.051	0.018	0.018	0.018	1.23	0.680	0.874	1970
1971	0.295	0.164	0.164	2.43	1.77	0.352	0.647	0.038	0.041	0.027	0.202	0.713	0.571	1971
1972	0.370	0.186	0.142	0.694	1.44	0.180	0.008	0.006	0.004	0.003	0.001	0.001	0.254	1972
1973	0.003	0.022	0.121	0.014	0.024	3.51	0.883	0.479	0.580	4.10	1.97	0.763	1.04	1973
1974	0.362	0.244	0.164	3.36	6.11	1.61	0.107	0.028	0.392	0.531	0.318	0.237	1.13	1974
1975	0.201	0.153	0.147	0.899	1.89	0.459	1.65	0.055	0.280	0.231	0.446	0.220	0.556	1975
1976	0.194	0.129	0.137	1.66	1.22	0.129	0.518	0.032	0.014	0.008	0.003	0.005	0.338	1976
1977	0.003	0.002	0.004	0.005	0.007	1.81	1.05	0.093	0.143	0.873	0.766	0.750	0.461	1977
1978	0.448	0.244	0.141	1.66	3.41	0.746	0.160	0.045	0.026	0.195	0.227	0.144	0.623	1978
1979	0.138	0.135	0.177	0.890	3.57	0.843	0.067	0.064	0.034	0.013	0.043	0.127	0.512	1979
1980	0.156	0.177	0.171	0.244	0.328	0.065	0.104	0.062	0.528	0.356	0.350	0.360	0.241	1980
1981	0.185	0.160	0.022	0.005	0.012	0.009	0.010	0.022	0.203	1.85	0.677	0.540	0.310	1981
1982	0.247	0.174	0.096	0.410	1.92	0.724	0.635	0.244	0.032	0.439	0.389	0.250	0.466	1982
1983	0.204	0.140	0.173	0.156	1.12	1.11	0.428	0.044	0.018	0.016	0.005	0.003	0.285	1983
1984	0.002	0.001	0.066	0.010	0.003	1.69	0.762	0.043	0.005	0.378	1.26	0.649	0.404	1984
1985	0.320	0.171	0.083	---	---	0.573	0.794	0.413	0.624	0.798	0.841	0.494	---	1985
1986	0.255	0.149	0.126	2.24	4.61	0.120	0.029	0.019	0.009	0.007	0.009	0.011	0.637	1986
1987	0.003	0.002	0.005	1.16	0.275	0.137	0.057	0.037	0.013	0.006	0.004	0.003	0.141	1987
1988	0.006	0.005	0.006	0.014	0.005	0.014	0.021	0.025	0.011	0.008	0.054	0.122	0.024	1988
1989	0.230	0.118	0.058	1.30	2.85	2.61	1.30	1.08	0.926	0.341	0.343	0.264	0.955	1989
1990	0.234	0.206	0.184	0.089	1.42	4.86	1.15	0.011	0.004	0.001	0	0.001	0.677	1990
MEAN	0.196	0.139	0.116	1.38	2.40	1.16	0.563	0.424	0.285	0.488	0.413	0.288	0.550	MEAN

LOCATION - LAT 49 55 42 N DRAINAGE AREA, 159 km²
LONG 095 32 40 W REGULATED

RENNIE RIVER NEAR RENNIE - STATION NO. 05PG002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	7.31 ON APR 25	0 B ON MAR 25 *	---	1960
1961	---	1.14 ON MAY 16	0.014 ON AUG 24	---	1961
1962	---	14.0 ON MAY 26 *	0 B ON MAR 01	---	1962
1963	---	5.44 ON JUN 13	0.082B ON MAR 01	---	1963
1964	---	5.97 ON MAY 08	0.011B ON MAR 01	---	1964
1965	---	6.03 ON MAY 07	---	---	1965
1966	---	8.44 E ON APR 17	0.028 ON JUN 21	---	1966
1967	---	7.16 E ON APR 24	0.003E ON OCT 24	26 400	1967
1968	---	3.31 E ON APR 24	0.042E ON AUG 29	28 500	1968
1969	---	3.60 ON MAY 01	0.042 ON NOV 27	12 800	1969
1970	6.43 AT 14:17 CST ON MAY 06	6.40 ON MAY 06	0 ON APR 02	27 600	1970
1971	7.70 AT 13:21 CST ON APR 22	7.39 ON APR 24	0.012 ON MAY 29	18 000	1971
1972	---	2.80 ON MAY 09	0 ON DEC 23	8 030	1972
1973	---	14.0 E ON JUN 20	0 ON JAN 01	32 900	1973
1974	12.7 AT 14:20 CST ON APR 26 *	12.5 ON APR 26	0.012 ON AUG 10	35 500	1974
1975	3.68 ON JUL	3.68 ON JUL 04	0 ON MAY 30	17 500	1975
1976	---	3.91 E ON APR 29	0 ON MAY 19	10 700	1976
1977	7.76 AT 15:09 CST ON JUN 25	7.14 ON JUN 26	0.002E ON FEB 06	14 500	1977
1978	9.60 AT 15:56 CST ON MAY 02	8.61 ON MAY 03	0.004 ON SEP 30	19 700	1978
1979	---	4.45 E ON MAY 06	0.005A ON JUN 14	16 200	1979
1980	1.28 AT 09:23 CST ON SEP 22	1.12 ON SEP 23	0.020 ON JUN 27	7 640	1980
1981	5.89 AT 09:38 CST ON OCT 06	4.97 ON OCT 07	0 B ON APR 07	9 780	1981
1982	3.66 AT 07:49 CST ON MAY 19	3.36 ON MAY 20	0.011 ON SEP 21	14 700	1982
1983	2.56 AT 14:27 CST ON MAY 18	2.35 ON MAY 19	0.003 ON DEC 07	9 000	1983
1984	4.30 AT 14:46 CST ON JUN 18	4.18 ON JUN 19	0 ON OCT 18	12 800	1984
1985	---	---	---	---	1985
1986	---	11.7 A ON MAY 10	0.005 ON OCT 11	20 100	1986
1987	1.81 AT 13:39 CST ON APR 18	1.54 ON APR 19	0.002 ON JAN 10	4 450	1987
1988	0.305 AT 09:29 CST ON OCT 27	0.190 ON DEC 27	0.002 ON MAY 01	769	1988
1989	4.80 AT 17:13 CST ON MAY 02	4.69 ON MAY 03	0.037 ON MAR 26	30 100	1989
1990	8.90 AT 18:57 CST ON JUN 09	8.70 ON JUN 09	0 ON NOV 06	21 400	1990
				17 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

RIVIERE AUX MARAIS NEAR CHRISTIE - STATION NO. 05OC022

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	0	4.91	0.019	0	0	0	0	0	---	---	0.604	1971
1972	---	---	0.478	1.24	0.001	0	0	0	0	0	---	---	0.213	1972
1973	---	---	0.167	0.001	0	0	0	0	0	0	---	---	0.053	1973
1974	---	---	0	10.8	28.5	0.437	0	0	0	0.249	---	---	4.98	1974
1975	---	---	0	0.567	0.286	0.010	0.012	0	0	0	---	---	0.108	1975
1976	---	---	0	2.74	0.003	0.059	0.003	0	0	0	---	---	0.344	1976
1977	---	---	0	0.039	0.029	0.156	0	0	0	0	---	---	0.028	1977
1978	---	---	0.323	2.46	0.014	0	0	0	0	0	---	---	0.346	1978
1979	---	---	0	11.4	4.87	0.478	0.104	0	0.009	0.004	---	---	2.08	1979
1980	---	---	0	0.394	0	0	0	0	0	0	---	---	0.048	1980
1981	---	---	0.206	0.032	0.003	0.010	0	0	0	0	---	---	0.032	1981
1982	---	---	0.068	0.925	0	0	0.003	0.013	0.002	0.047	---	---	0.130	1982
1983	---	---	0.553	2.24	0.003	0.001	0.002	0	0	0	---	---	0.345	1983
1984	---	---	0.002	0.080	0.002	0.003	0	0	0	0	---	---	0.011	1984
1985	---	---	0.849	0.051	0.002	0	0	0.036	0.002	0.031	---	---	0.123	1985
1986	---	---	1.87	0.761	0.208	0.007	0.040	0.001	0	0	---	---	0.362	1986
1987	---	---	0.002	4.10	0.012	0.007	0	0	0	0	---	---	0.505	1987
1988	---	---	0	0.130	0	0	0	0	0	0	---	---	0.016	1988
1989	---	---	0	0.297	0.001	0	0	0	0	0	---	---	0.036	1989
1990	---	---	0.150	1.03	0.004	0.004	0.004	0	0	0	---	---	0.147	1990
MEAN	---	---	0.233	2.21	1.70	0.059	0.008	0.003	0.001	0.017	---	---	0.526	MEAN

LOCATION - LAT 49 03 30 N LONG 097 18 50 W DRAINAGE AREA, 204 km² NATURAL FLOW

RIVIERE AUX MARAIS NEAR CHRISTIE - STATION NO. 05OC022

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	13.3 ON APR 13	0B ON MAR 01 *	12 800	1971
1972	---	5.64 ON APR 14	0B ON MAR 01	4 500	1972
1973	---	1.26 ON MAR 23	0B ON MAR 01	1 120	1973
1974	---	75.0 ON MAY 02 *	0B ON MAR 01	105 000	1974
1975	---	3.20 ON APR 30	0B ON MAR 01	2 290	1975
1976	---	16.3 ON APR 06	0B ON MAR 01	7 270	1976
1977	---	1.07 ON JUN 01	0B ON MAR 01	585	1977
1978	---	8.21 ON APR 09	0B ON MAR 01	7 320	1978
1979	37.6 AT 02:41 CST ON APR 19 *	36.4 ON APR 19	0B ON MAR 01	44 100	1979
1980	---	3.81 B ON APR 02	0B ON MAR 01	1 020	1980
1981	---	0.500B ON MAR 14	0B ON MAR 01	668	1981
1982	5.40 AT 01:38 CST ON APR 14	5.15 ON APR 14	0B ON MAR 01	2 760	1982
1983	8.23 B AT 09:25 CST ON APR 07	7.95 B ON APR 07	0B ON MAR 01	7 300	1983
1984	---	0.377 ON APR 03	0B ON MAR 01	226	1984
1985	7.29 B AT 15:40 CST ON MAR 19	6.15 B ON MAR 20	0B ON MAR 01	2 600	1985
1986	---	16.1 B ON MAR 28	0B ON MAR 01	7 670	1986
1987	23.8 AT 02:47 CST ON APR 07	23.3 ON APR 06	0B ON MAR 01	10 700	1987
1988	0.973 AT 18:11 CST ON APR 05	0.879 ON APR 05	0B ON MAR 01	338	1988
1989	---	2.80 ON APR 23	0B ON MAR 01	771	1989
1990	8.35 AT 04:00 CST ON APR 01	7.50 ON APR 01	0B ON MAR 01	3 110	1990
				11 100	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROARING RIVER NEAR MINITONAS - STATION NO. 05LE005

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	---	4.31	4.90	5.00	3.80	0.292	1.89	2.84	---	---	---	1959
1960	---	---	0.080	11.3	9.35	5.87	0.698	0.187	0	0.038	---	---	3.41	1960
1961	---	---	0.042	0.444	0.784	0.149	0.008	0	0	0.003	---	---	0.179	1961
1962	---	---	0	3.07	1.45	0.360	0.058	0.008	0.299	0.542	---	---	0.716	1962
1963	---	---	0.267	4.83	3.22	1.27	0.348	0.224	0.161	0.058	---	---	1.29	1963
1964	---	---	---	1.08	2.61	0.275	0.105	0.097	0.043	0.095	---	---	---	1964
1965	---	---	0	4.30	9.31	4.57	1.69	2.64	1.78	1.24	---	---	3.19	1965
1966	---	---	0.010	8.81	11.3	8.87	3.30	0.698	0.338	1.12	---	---	4.29	1966
1967	---	---	0.170	0.997	11.5	2.99	0.519	0.170	0	0.004	---	---	2.06	1967
1968	---	---	0.683	1.62	1.63	1.71	2.40	1.93	0.912	0.271	---	---	1.39	1968
1969	---	---	0.198	5.29	2.19	2.16	0.945	0.555	0.333	2.17	---	---	1.72	1969
1970	---	---	0.213	6.27	15.3	2.21	2.58	0.727	0.693	3.11	---	---	3.90	1970
1971	---	---	0.272	15.7	4.27	3.20	1.69	1.03	0.195	0.929	---	---	3.38	1971
1972	---	---	0.286	9.30	9.18	2.10	1.44	0.272	0.064	0.186	---	---	2.84	1972
1973	---	---	0.394	1.38	1.74	7.10	4.65	0.629	1.15	1.12	---	---	2.26	1973
1974	---	---	0.335	13.9	16.1	5.09	0.440	0.424	0.899	1.36	---	---	4.79	1974
1975	---	---	0.317	8.50	12.4	7.66	1.08	0.336	1.71	2.43	---	---	4.28	1975
1976	---	---	0.355	15.7	3.15	21.4	2.46	0.496	0.257	0.193	---	---	5.42	1976
1977	---	---	0.163	4.06	1.54	0.645	1.20	1.66	4.38	2.70	---	---	2.03	1977
1978	---	---	0.287	8.22	4.28	0.913	0.458	0.035	0.205	1.23	---	---	1.94	1978
1979	---	---	0.177	11.4	22.1	6.44	0.838	0.224	0.141	0.299	---	---	5.20	1979
1980	---	---	0.177	4.54	0.888	---	---	---	---	---	---	---	---	1980
1981	---	---	0.140	1.36	1.74	1.85	0.733	0.264	0.013	0.740	---	---	0.853	1981
1982	---	---	0.022	2.84	1.98	0.752	4.85	1.16	0.181	0.596	---	---	1.55	1982
1983	---	---	0.183	6.69	9.99	4.46	6.22	0.609	0.228	0.543	---	---	3.62	1983
1984	---	---	0.245	5.12	9.58	7.88	1.45	0.170	0.175	1.51	---	---	3.25	1984
1985	---	---	0.421	16.3	4.74	3.44	1.72	4.87	1.70	3.33	---	---	4.53	1985
1986	---	---	2.22	13.2	9.64	2.64	2.45	2.37	0.884	2.03	---	---	4.41	1986
1987	---	---	1.89	8.29	1.66	1.71	3.55	1.56	0.672	2.64	---	---	2.74	1987
1988	---	---	0.818	22.8	29.4	2.68	0.616	0.276	0.118	0.235	---	---	7.11	1988
1989	---	---	0.043	1.45	0.960	2.26	0.926	0.983	1.55	2.41	---	---	1.32	1989
1990	---	---	0.420	11.3	13.0	2.79	1.69	0.158	0.094	0.244	---	---	3.70	1990
MEAN	---	---	0.361	7.32	7.25	3.89	1.77	0.811	0.681	1.17	---	---	3.01	MEAN

LOCATION - LAT 52 09 10 N DRAINAGE AREA, 838 km²
LONG 101 03 10 W NATURAL FLOW

ROARING RIVER NEAR MINITONAS - STATION NO. 05LE005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	23.1 AT 18:30 CST ON JUN 29	22.7 ON JUN 30	---	---	1959
1960	47.3 B AT 19:00 CST ON APR 11	39.4 ON APR 12	0 ON AUG 30 *	72 200	1960
1961	---	1.92B ON APR 23	0 ON JUL 28	3 780	1961
1962	---	17.1 B ON APR 20	0 B ON MAR 01	15 200	1962
1963	---	10.9 B ON APR 10	0 B ON MAR 01	27 300	1963
1964	---	9.06 ON MAY 10	---	---	1964
1965	---	25.7 ON MAY 02	0 B ON MAR 01	67 500	1965
1966	---	27.7 ON JUN 27	0 B ON MAR 01	90 800	1966
1967	---	22.1 B ON MAY 01	0 ON AUG 26	43 600	1967
1968	---	6.74 ON JUL 22	0 ON JUN 28	29 500	1968
1969	---	16.5 ON APR 16	0.054 ON SEP 21	36 400	1969
1970	---	36.0 ON MAY 03	0.020 ON JUL 20	82 500	1970
1971	---	47.3 ON APR 18	0.127 ON SEP 04	71 500	1971
1972	---	41.9 ON APR 21	0.034 ON SEP 26	60 200	1972
1973	---	30.9 ON JUN 21	0.085B ON MAR 01	47 800	1973
1974	---	88.1 ON APR 20	0.227 ON AUG 07	101 000	1974
1975	---	27.7 ON APR 30	0.249 ON SEP 02	90 600	1975
1976	146 ON JUN 15	131 ON JUN 15	0.068 ON SEP 29	115 000	1976
1977	---	14.0 B ON APR 12	0.136B ON MAR 01	43 000	1977
1978	31.4 AT 22:15 CST ON APR 18	27.6 ON APR 18	0.007A ON AUG 22	41 100	1978
1979	---	51.9 A ON MAY 18	0.111A ON AUG 29	110 000	1979
1980	8.96 AT 03:00 CST ON APR 20	8.59 ON APR 19	---	---	1980
1981	4.71 AT 22:30 CST ON JUN 21	4.65 ON JUN 21	0 A ON SEP 02	18 100	1981
1982	---	25.7 A ON JUL 19	0.013B ON MAR 27	32 900	1982
1983	---	52.1 B ON APR 24	0.136 ON SEP 25	76 700	1983
1984	38.3 AT 11:26 CST ON JUN 24	35.6 ON JUN 24	0.070E ON SEP 01	68 800	1984
1985	41.7 AT 18:08 CST ON APR 12	36.8 ON APR 21	0.208B ON MAR 11	95 900	1985
1986	---	25.0 ON APR 11	0.184A ON SEP 10	93 400	1986
1987	---	23.6 B ON APR 05	0.263B ON MAR 02	57 900	1987
1988	175 AT 03:38 CST ON MAY 03 *	169 ON MAY 03 *	0.036 ON SEP 18	150 000	1988
1989	6.68 AT 00:01 CST ON JUN 15	6.12 ON JUN 28	0.041B ON MAR 22	27 900	1989
1990	46.4 AT 17:52 CST ON MAY 17	39.2 ON MAY 18	0.066 ON SEP 07	78 300	1990
				63 800	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROLLING RIVER NEAR DANVERS - STATION NO. 05MF007

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAY TO NOV IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	0.284	0.652	0.425	0.283	0.255	0.283	0.311	---	0.355	1915
MEAN	---	---	---	---	0.284	0.652	0.425	0.283	0.255	0.283	0.311	---	0.355	MEAN

LOCATION - LAT 50 33 20 N LONG 099 54 10 W
DRAINAGE AREA, 408 km²
NATURAL FLOW

ROLLING RIVER NEAR DANVERS - STATION NO. 05MF007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO NOV FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	1.42 ON JUN 11 *	0 ON JUN 03 *	6 570	1915
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		6 570	MEAN

ROLLING RIVER NEAR ERICKSON - STATION NO. 05MF008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	0.453	1.14	0.777	0.362	0.442	1.03	0.461	0.142	---	1915
1916	0.142	0.113	0.113	4.24	3.87	5.33	5.97	1.48	0.495	0.653	0.570	0.283	1.94	1916
1917	0.227	0.268	0.411	2.57	5.07	1.16	1.25	0.514	1.08	0.256	0.265	0.112	1.10	1917
1918	0.048	0.058	0.231	2.09	1.39	1.50	0.757	0.601	1.14	0.451	0.283	0.201	0.729	1918
1919	0.132	0.029	0.073	4.06	1.90	0.799	1.54	0.604	0.671	0.721	0.425	0.192	0.930	1919
1920	0.015	0.023	0.105	0.951	8.18	2.19	0.784	0.319	0.504	0.614	0.501	0.363	1.22	1920
1921	0.178	0.147	0.227	3.53	6.97	2.80	1.17	0.648	1.70	1.15	0.777	0.389	1.65	1921
1922	0.177	0.092	0.192	4.43	7.44	2.51	1.53	1.16	0.792	---	---	---	---	1922
1961	---	---	0.191	0.975	1.49	0.122	0.007	0	0.007	0.039	---	---	---	1961
1962	---	---	0.012	0.705	0.132	1.88	0.556	0.273	0.521	0.476	---	---	---	1962
1963	---	---	0.226	5.78	3.81	4.62	1.82	0.556	0.640	0.545	---	---	---	1963
1964	---	---	0.153	2.34	4.55	0.963	0.805	0.517	0.222	0.175	---	---	---	1964
1965	---	---	0.068	1.87	10.3	5.23	2.10	1.35	6.80	1.75	---	---	---	1965
1966	---	---	0.032	3.69	7.33	2.72	0.925	2.05	0.511	0.482	---	---	---	1966
1967	---	---	0.301	4.70	9.37	3.81	1.16	0.513	0.008	0.418	---	---	---	1967
1968	---	---	0.692	2.73	2.47	1.30	1.45	3.83	2.06	0.687	---	---	---	1968
1969	---	---	0.235	6.22	4.78	3.52	9.44	1.89	1.06	0.936	---	---	---	1969
1970	---	---	0.391	1.38	25.0	7.05	3.45	1.23	0.885	0.979	---	---	---	1970
1971	---	---	0.212	5.39	3.86	8.95	4.32	1.69	0.707	2.41	---	---	---	1971
1972	0.571	0.328	0.269	4.58	7.94	3.50	0.896	0.403	0.364	0.463	0.351	0.028	1.63	1972
1973	0	0	0.280	1.03	1.22	2.71	0.966	0.848	1.91	2.59	0.875	0.625	1.08	1973
1974	0.299	0.329	0.386	5.11	14.1	5.95	1.14	0.351	0.329	0.305	0.306	0.251	2.42	1974
1975	0.227	0.215	0.223	1.41	6.27	4.15	0.964	2.44	12.8	5.88	2.84	1.54	3.25	1975
1976	1.01	0.713	0.838	10.1	6.03	4.52	1.40	0.492	0.163	0.101	0.126	0.086	2.13	1976
1977	0.078	0.082	0.170	0.643	1.24	0.602	2.53	0.571	1.85	1.90	0.873	0.573	0.933	1977
1978	0.380	0.312	0.291	3.03	3.94	1.61	0.527	0.061	0.410	0.570	0.411	0.242	0.983	1978
1979	0.172	0.164	0.206	3.85	16.4	6.90	1.64	0.396	0.109	0.184	0.245	0.241	2.56	1979
1980	0.161	0.171	0.237	2.10	0.631	0.207	0.527	2.15	2.45	1.67	1.39	1.10	1.07	1980
1981	0.432	0.182	0.377	3.43	1.72	1.90	0.754	0.349	0.212	0.832	0.709	0.183	0.923	1981
1982	0.033	0.013	0.012	5.12	3.92	1.02	0.755	0.672	0.167	0.964	0.848	0.194	1.15	1982
1983	0.071	0.077	0.135	5.45	7.38	4.08	3.10	0.564	0.048	0.131	0.154	0.072	1.81	1983
1984	0.044	0.065	0.329	1.94	3.15	2.73	1.01	0.091	0.127	0.550	0.555	0.425	0.918	1984
1985	0.270	0.211	0.243	5.21	2.70	1.28	1.07	2.79	1.87	2.48	0.737	0.278	1.60	1985
1986	0.254	0.216	0.520	8.51	14.3	2.69	1.82	1.21	0.723	1.67	0.857	0.660	2.80	1986
1987	0.511	0.453	0.543	8.95	3.15	1.38	1.01	0.159	0.237	0.396	0.429	0.271	1.45	1987
1988	0.119	0.096	0.150	2.95	3.42	0.305	0.083	0.025	0.020	0.179	0.179	0.086	0.635	1988
1989	0.067	0.055	0.204	1.19	0.553	2.69	1.10	0.109	0.114	0.082	0.096	0.098	0.528	1989
1990	0.093	0.062	0.097	5.55	7.47	2.84	1.22	0.169	0.101	0.099	0.146	0.093	1.50	1990
MEAN	0.220	0.172	0.254	3.73	5.63	2.85	1.64	0.880	1.16	0.941	0.593	0.336	1.48	MEAN

LOCATION - LAT 50 31 12 N LONG 099 56 27 W
DRAINAGE AREA, 760 km²
NATURAL FLOW

ROLLING RIVER NEAR ERICKSON - STATION NO. 05MF008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	---	---	---	1915
1916	---	17.4 ON JUN 30	0.113B ON FEB 01	61 300	1916
1917	---	10.7 ON APR 30	0.057B ON DEC 27	34 800	1917
1918	---	5.38 ON APR 21	0.028B ON JAN 09	23 000	1918
1919	---	9.00 ON APR 11	0 B ON FEB 17 *	29 300	1919
1920	---	16.5 ON MAY 12	0 B ON JAN 15	38 600	1920
1921	---	12.9 ON MAY 25	0.113B ON JAN 18	51 900	1921
1922	---	12.1 ON MAY 17	---	---	1922
1961	---	2.48 ON MAY 10	0 ON JUL 13	---	1961
1962	---	3.28 ON JUN 03	0 ON MAY 09	---	1962
1963	---	8.81 ON APR 21	0 B ON MAR 01	---	1963
1964	---	8.16 ON MAY 08	0.119 ON SEP 28	---	1964
1965	---	23.2 ON MAY 04	0.065B ON MAR 01	---	1965
1966	---	14.2 ON MAY 10	0 B ON MAR 01	---	1966
1967	---	11.6 ON MAY 12	0 ON SEP 25	---	1967
1968	---	6.88 ON AUG 05	0.142B ON MAR 01	---	1968
1969	---	27.2 ON JUL 01	0.142B ON MAR 01	---	1969
1970	---	60.3 ON MAY 11 *	0.348 ON SEP 11	---	1970
1971	---	16.7 ON JUN 12	0.212B ON MAR 01	---	1971
1972	13.1 AT 18:09 CST ON APR 30	13.0 ON APR 30	0 B ON DEC 17	51 500	1972
1973	6.48 AT 18:23 CST ON JUN 24	6.43 ON JUN 24	0 B ON JAN 01	34 100	1973
1974	21.9 AT 21:05 CST ON MAY 14	21.1 ON APR 30	0.193 ON AUG 27	76 200	1974
1975	52.1 AT 17:40 CST ON SEP 21 *	47.9 ON SEP 22	0.193B ON APR 03	102 000	1975
1976	18.8 AT 21:29 CST ON APR 17	19.5 ON APR 17	0.037 ON OCT 05	67 200	1976
1977	8.98 AT 03:15 CST ON JUL 17	8.86 ON JUL 17	0.071B ON JAN 17	29 400	1977
1978	8.52 AT 23:59 CST ON APR 30	8.44 ON MAY 01	0.003 ON SEP 12	31 000	1978
1979	31.8 AT 07:06 CST ON MAY 20	31.6 ON MAY 20	0.046 ON OCT 01	80 600	1979
1980	5.06 AT 04:25 CST ON AUG 27	4.98 ON AUG 27	0.108 ON AUG 03	33 700	1980
1981	7.29B AT 19:58 CST ON APR 06	5.84B ON APR 06	0.004 ON SEP 21	29 100	1981
1982	12.7 B AT 22:38 CST ON APR 19	12.3 ON APR 22	0.001B ON FEB 16	36 200	1982
1983	27.1 AT 11:45 CST ON APR 27	26.7 ON APR 27	0.033 ON SEP 22	56 900	1983
1984	8.28 AT 00:28 CST ON JUN 28	8.04 ON JUN 28	0.029B ON JAN 25	29 000	1984
1985	10.7 AT 18:08 CST ON APR 19	10.7 ON APR 19	0.112 ON AUG 03	50 400	1985
1986	38.3 AT 18:45 CST ON MAY 08	37.5 ON MAY 08	0.198B ON MAR 19	88 300	1986
1987	21.4 B AT 12:06 CST ON APR 12	21.3 B ON APR 12	0.093 ON AUG 25	45 800	1987
1988	10.9 B AT 06:18 CST ON APR 08	10.5 B ON APR 08	0.004 ON SEP 26	20 100	1988
1989	9.49 AT 12:51 CST ON JUN 17	9.37 ON JUN 17	0.043 ON OCT 21	16 700	1989
1990	21.2 AT 02:21 CST ON APR 26	20.9 ON APR 26	0.046B ON MAR 06	47 300	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		46 600	MEAN

ROSEAU RIVER AT DOMINION CITY - STATION NO. 05OD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	5.67	1.70	3.21	5.26	30.0	22.5	6.80	---	1912
MEAN	---	---	---	---	---	5.67	1.70	3.21	5.26	30.0	22.5	6.80	---	MEAN

LOCATION - LAT 49 08 50 N LONG 097 09 00 W DRAINAGE AREA, 5 620 km² NATURAL FLOW

ROSEAU RIVER AT DOMINION CITY - STATION NO. 05OD002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
				---	MEAN

ROSEAU RIVER AT GARDENTON - STATION NO. 05OD004

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	22.0	19.3	23.8	4.87	0.676	1.47	1.70	0.850	---	1915
1916	0.227	0.170	0.255	41.2	49.7	19.8	5.82	2.77	2.37	2.59	2.43	0.113	16.7	1916
1917	0.391	0.312	0.505	12.8	16.2	2.75	2.56	1.24	0.468	0.899	1.88	0.510	4.67	1917
1918	0.045	0	---	---	4.10	6.59	2.60	1.41	0.972	1.56	3.34	1.42	---	1918
1919	0.821	0.368	0.736	---	8.86	9.80	44.5	15.8	2.41	1.99	1.72	0.926	---	1919
1920	0.334	0.371	---	24.1	10.8	11.2	1.00	0.124	0.403	1.21	0.663	0.201	---	1920
1921	0.127	0.227	---	21.0	9.23	4.97	1.17	0.962	1.80	1.89	0.631	0.510	---	1921
1922	0.173	0.085	---	16.6	24.0	13.8	3.03	1.39	4.94	---	4.13	1.07	---	1922
1962	0.204	0.232	---	17.8	40.6	58.8	30.9	23.5	8.66	0.294	3.57	2.30	---	1962
1963	0.289	0.235	2.10	36.2	20.2	23.3	8.09	1.48	0.251	0.699	0.767	0.187	11.4	1963
1964	0.034	0.024	0	16.7	21.8	20.3	23.3	2.39	2.69	18.1	8.81	1.08	13.2	1964
1965	0.082	0.037	0	37.1	70.1	42.2	23.5	2.56	5.51	17.6	15.7	7.70	24.8	1965
1966	3.11	1.78	9.54	70.6	79.1	43.4	16.0	4.57	3.70	1.42	1.31	1.55	28.4	1966
1967	0.348	0.136	0.661	55.4	66.3	21.4	3.18	0.240	0.011	0.021	0.275	0.513	18.3	1967
1968	0.204	0.051	0.725	19.7	5.61	32.8	48.8	46.3	44.9	17.6	11.6	2.94	27.0	1968
1969	0.799	0.631	0.998	46.8	62.0	20.3	4.02	3.82	1.71	3.79	2.84	1.71	17.9	1969
1970	1.20	0.662	0.488	23.9	88.5	78.6	37.9	1.59	3.39	2.24	7.16	1.43	29.5	1970
1971	0.147	0.149	0.436	34.8	26.6	8.84	3.68	1.24	0.657	3.45	9.58	1.86	9.90	1971
1972	0.607	0.315	1.71	24.0	32.8	9.92	1.64	0.616	0.435	1.13	1.06	0.202	9.00	1972
1973	0.176	0.167	6.23	2.70	3.34	2.10	0.800	2.17	4.58	15.9	6.31	1.31	4.74	1973
1974	0.439	0.385	0.432	25.4	80.0	56.8	5.38	13.5	13.1	3.91	2.97	1.03	24.7	1974
1975	0.609	0.711	0.817	15.9	68.5	33.1	36.9	3.62	0.864	0.569	0.949	0.413	19.7	1975
1976	---	---	0.425	28.7	7.57	3.78	2.64	0.357	0.177	0.453	---	---	5.45	1976
1977	---	---	0.407	4.75	1.70	2.90	1.70	0.347	1.05	5.00	---	---	2.10	1977
1978	---	---	0.261	30.0	41.2	5.64	11.1	5.40	4.43	1.74	---	---	12.7	1978
1979	---	---	0.378	19.5	74.6	34.8	3.16	0.453	0.237	0.162	---	---	16.6	1979
1980	---	---	0.258	18.0	2.66	0.240	0.028	0.029	0.146	0.656	---	---	2.72	1980
1981	---	---	2.68	1.57	1.55	9.43	8.34	2.00	3.82	10.5	---	---	4.99	1981
1982	---	---	0.670	29.3	36.2	8.79	8.39	3.68	1.26	17.4	---	---	13.2	1982
1983	---	---	27.0	37.8	22.1	18.4	14.3	0.880	1.49	3.00	---	---	15.6	1983
1984	---	---	2.16	23.2	7.60	19.4	9.12	1.06	0.114	2.42	---	---	8.06	1984
1985	---	---	2.53	25.8	21.5	24.0	32.7	25.9	35.8	21.2	---	---	23.6	1985
1986	---	---	5.67	65.1	72.1	25.6	4.93	0.987	0.450	0.119	---	---	21.9	1986
1987	---	---	4.96	43.0	9.92	6.22	1.64	0.465	0.108	0.183	---	---	8.21	1987
1988	---	---	0.129	9.97	1.01	0.477	1.75	0.129	0.010	0.066	---	---	1.67	1988
1989	---	---	0.018	15.0	26.1	13.2	12.9	1.05	0.337	0.264	---	---	8.60	1989
1990	---	---	3.42	6.11	3.99	4.73	5.23	0.185	0.015	0.016	---	---	2.95	1990
MEAN	0.494	0.336	2.47	26.5	31.0	19.4	12.1	4.84	4.16	4.52	4.06	1.35	13.6	MEAN

LOCATION - LAT 49 05 16 N
LONG 096 41 15 W

DRAINAGE AREA, 4 380 km²
NATURAL FLOW

ROSEAU RIVER AT GARDENTON - STATION NO. 05OD004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1915	---	---	---	---	1915
1916	---	89.8 ON APR 30	0.057 ON AUG 02	354 000	1916
1917	---	26.8 ON APR 28	0.113 ON SEP 19	98 800	1917
1918	---	---	---	---	1918
1919	---	66.3 ON JUL 21	---	---	1919
1920	---	50.1 ON APR 16	0 ON AUG 21 *	---	1920
1921	---	48.4 ON APR 16	---	---	1921
1922	---	35.7 ON MAY 29	---	---	1922
1962	---	71.9 ON JUN 15	0 ON OCT 16	---	1962
1963	---	43.3 ON APR 28	0 B ON MAR 01	242 000	1963
1964	---	37.7 ON JUL 04	0 B ON MAR 01	279 000	1964
1965	---	85.8 ON MAY 06	0 B ON MAR 01	524 000	1965
1966	---	101 ON MAY 04	1.13 ON OCT 12	602 000	1966
1967	---	79.0 ON APR 21	0 B ON MAR 01	388 000	1967
1968	---	57.8 ON JUN 30	0.142B ON MAR 01	571 000	1968
1969	---	83.8A ON APR 29	0.903B ON MAR 01	378 000	1969
1970	103 AT 15:00 CST ON MAY 16 *	102 ON MAY 16 *	0.283B ON APR 12	625 000	1970
1971	53.5 AT 00:38 CST ON APR 21	53.2 ON APR 21	0.326B ON MAR 11	209 000	1971
1972	---	47.6 ON MAY 01	0.283E ON SEP 01	191 000	1972
1973	---	21.2 ON OCT 02	0.255B ON MAR 01	100 000	1973
1974	96.3 AT 13:00 CST ON MAY 21	95.1 ON MAY 21	0.408B ON MAR 17	523 000	1974
1975	71.8 AT 00:33 CST ON MAY 10	72.5 ON MAY 09	0.422 ON OCT 02	417 000	1975
1976	41.7B AT 21:21 CST ON APR 06	40.2 ON APR 07	0.093 ON SEP 26	115 000	1976
1977	14.6B AT 16:22 CST ON APR 10	10.5B ON APR 10	0.142B ON MAR 01	44 500	1977
1978	62.1 AT 18:08 CST ON APR 27	56.6 ON APR 27	0.232B ON MAR 01	269 000	1978
1979	90.6 AT 11:43 CST ON MAY 12	89.0 ON MAY 12	0.003 ON OCT 01	353 000	1979
1980	41.0 AT 03:33 CST ON APR 14	39.5B ON APR 14	0 ON JUL 10	57 500	1980
1981	19.0 AT 11:10 CST ON JUL 04	18.9 ON JUL 04	0.482 ON SEP 05	106 000	1981
1982	---	47.2A ON MAY 04	0.286B ON MAR 26	280 000	1982
1983	58.8 AT 14:38 CST ON APR 08	51.9 ON APR 08	0.307 ON AUG 27	330 000	1983
1984	47.4 AT 16:52 CST ON APR 04	39.3 ON APR 04	0.040 ON OCT 10	171 000	1984
1985	41.8 AT 00:24 CST ON APR 04	40.7 ON JUL 18	0.109B ON MAR 15	500 000	1985
1986	78.7 AT 04:51 CST ON MAY 02	78.9 ON MAY 02	0.241 ON AUG 24	464 000	1986
1987	63.0 AT 22:59 CST ON APR 07	59.4 ON APR 08	0.050 ON SEP 17	174 000	1987
1988	30.5 AT 11:26 CST ON APR 09	28.0 ON APR 09	0.001 ON SEP 05	35 400	1988
1989	41.5 AT 14:47 CST ON MAY 04	41.0 ON MAY 07	0.009B ON MAR 01	182 000	1989
1990	19.4 AT 16:48 CST ON APR 04	17.8B ON APR 04	0 ON SEP 29	62 500	1990
				288 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEAU RIVER AT STUARTBURN - STATION NO. 05OD014

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1924	---	---	---	---	21.2	5.85	2.27	6.13	2.03	6.53	---	---	---	1924
1925	---	---	---	27.7	14.2	42.0	45.8	3.36	4.14	6.31	---	---	---	1925
1926	---	---	---	15.6	5.27	17.3	33.6	4.59	7.54	19.0	---	---	---	1926
1927	---	---	---	62.3	78.0	55.5	14.1	1.43	2.67	3.74	4.25	---	---	1927
1928	---	---	---	9.90	8.27	20.1	45.7	17.6	6.03	3.77	---	---	---	1928
1929	---	---	---	15.8	5.28	5.28	2.12	0.220	0.278	---	---	---	---	1929
1930	---	---	---	---	19.8	6.28	10.9	0.524	0.165	---	---	---	---	1930
1934	---	---	---	5.92	1.86	1.37	0.472	0.051	0.047	0.938	---	---	---	1934
1935	---	---	---	15.2	8.44	2.50	3.29	1.29	1.29	0.726	---	---	---	1935
1936	---	---	---	12.6	17.3	2.69	0.294	0.004	0.521	---	---	---	---	1936
1962	---	---	0	13.3	42.7	60.5	27.3	24.8	10.4	1.86	---	---	22.5	1962
1963	---	---	2.09	36.5	23.4	24.9	8.42	1.52	0.250	0.699	---	---	12.1	1963
1964	---	---	0	18.2	25.9	22.2	24.3	2.50	2.84	23.1	---	---	14.9	1964
1965	---	---	0	37.4	71.3	42.6	24.4	3.88	7.43	22.6	---	---	26.2	1965
1966	---	---	10.5	75.5	87.9	46.6	16.7	5.31	4.62	1.97	---	---	31.0	1966
1967	---	---	0.711	58.3	68.3	23.3	3.70	0.563	0.034	0.049	---	---	19.3	1967
1968	---	---	0.736	20.7	5.36	32.8	50.8	48.7	47.4	20.6	---	---	28.3	1968
1969	---	---	0.998	45.8	63.7	20.8	3.97	4.05	1.90	4.44	---	---	18.1	1969
MEAN	---	---	1.88	29.4	31.6	24.0	17.7	7.03	5.53	7.76	4.25	---	21.5	MEAN

LOCATION - LAT 49 07 57 N DRAINAGE AREA, 4 500 km²
LONG 096 46 09 W NATURAL FLOW

ROSEAU RIVER AT STUARTBURN - STATION NO. 05OD014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1924	---	---	---	---	1924
1925	---	65.4 ON JUL 03	---	---	1925
1926	---	47.3 ON JUL 09	---	---	1926
1927	---	114 ON MAY 24	---	---	1927
1928	---	51.3 ON JUL 06	---	---	1928
1929	---	28.9R ON APR 11	---	---	1929
1930	---	---	---	---	1930
1934	---	---	0 ON SEP 17 *	---	1934
1935	---	---	0.368 ON AUG 11	---	1935
1936	---	---	0 ON AUG 06	---	1936
1962	---	75.0 ON JUN 16	0 B ON MAR 01	477 000	1962
1963	---	47.9 ON APR 26	0 B ON MAR 01	257 000	1963
1964	---	39.6 ON JUN 24	0 B ON MAR 01	315 000	1964
1965	---	94.0 ON MAY 06	0 B ON MAR 01	554 000	1965
1966	---	116 ON MAY 04 *	0.985 ON SEP 30	656 000	1966
1967	---	84.4 ON APR 21	0 B ON MAR 01	408 000	1967
1968	---	63.1 ON JUL 02	0.142B ON MAR 01	599 000	1968
1969	---	83.5 ON MAY 01	0.903B ON MAR 01	384 000	1969
				456 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1989

ROSEAU RIVER BELOW RAILWAY BRIDGE, DOMINION CITY - STATION NO. 05OD003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	18.4	19.8	19.8	9.71	2.52	4.96	8.18	7.93	1.84	---	1914
1915	0.283	0.227	0.425	10.2	21.7	19.9	27.4	5.32	0.732	1.50	2.55	1.27	7.68	1915
MEAN	0.283	0.227	0.425	14.3	20.7	19.9	18.5	3.92	2.85	4.84	5.24	1.56	7.68	MEAN

LOCATION - LAT 49 08 55 N DRAINAGE AREA, 5 630 km²
LONG 097 10 00 W NATURAL FLOW

ROSEAU RIVER BELOW RAILWAY BRIDGE, DOMINION CITY - STATION NO. 05OD003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	36.2 ON JUL 11 *	0.227B ON FEB 01 *	242 000	1915
				242 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEAU RIVER NEAR CARIBOU - STATION NO. 05OD030

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1917	---	---	---	20.4	13.0	1.71	1.61	0.485	0.501	---	---	---	---	1917
1920	---	---	---	17.5	10.9	11.8	1.30	0.481	0.651	0.917	0.906	0.507	---	1920
1921	0.340	0.311	0.283	27.4	8.20	3.39	0.815	0.796	1.86	1.48	0.993	0.566	3.85	1921
1922	0.510	0.425	0.566	14.1	23.7	11.4	2.66	1.33	4.80	1.86	4.99	1.88	5.96	1922
1923	1.42	0.850	1.02	20.6	13.0	3.09	2.92	1.05	0.865	1.27	1.14	0.934	7.37	1923
1924	0.850	1.67	2.94	14.9	19.5	5.26	2.15	5.52	1.75	6.17	4.03	1.20	5.51	1924
1925	1.19	1.29	6.45	27.3	13.3	42.7	43.1	2.11	3.67	5.88	7.52	2.43	13.1	1925
1926	1.59	1.06	4.10	12.2	4.71	20.6	33.5	2.45	4.91	13.0	10.8	6.41	9.73	1926
1927	3.79	2.13	5.55	57.8	71.8	46.8	10.1	1.18	1.25	2.56	4.25	1.56	17.4	1927
1928	1.13	0.855	3.21	11.7	4.91	19.8	42.9	10.9	3.58	1.95	1.98	1.03	8.70	1928
1929	0.583	0.473	6.30	15.7	5.63	5.32	1.93	0.445	0.477	0.779	0.985	0.353	3.25	1929
1930	0.283	0.227	0.425	16.0	28.3	7.03	13.3	0.768	0.310	0.763	2.20	---	---	1930
1931	---	---	---	13.2	6.03	2.89	1.30	0.474	0.463	0.888	2.54	---	---	1931
1932	---	---	---	29.8	17.7	2.63	2.36	0.486	1.17	2.20	4.67	1.90	---	1932
1933	0.845	0.493	0.707	25.3	12.4	7.85	0.285	0.112	0.190	0.254	0.302	---	---	1933
1934	---	---	---	4.68	1.73	1.39	0.562	0.123	0.170	0.639	---	---	---	1934
1935	---	---	---	13.7	7.71	2.55	3.04	1.52	1.23	0.755	---	---	---	1935
1936	---	---	---	11.9	15.6	2.25	0.251	0.059	0.433	0.281	0.253	0.148	---	1936
1937	0.170	0.170	0.283	12.2	11.2	9.20	8.41	23.6	2.15	1.02	0.847	0.349	7.55	1937
1938	---	---	8.31	6.48	36.6	21.3	1.54	0.287	0.160	0.229	---	---	---	1938
1939	---	---	---	3.07	2.30	2.73	0.702	0.160	0.301	0.417	---	---	---	1939
1940	---	---	---	6.76	4.88	1.58	0.319	0.712	0.811	0.742	3.85	1.27	---	1940
1941	0.826	0.574	0.426	27.8	22.1	18.7	4.09	0.202	9.07	36.9	8.22	1.02	10.8	1941
1942	0.303	0.389	5.36	49.9	42.8	13.6	0.971	4.59	18.9	3.69	1.24	0.507	11.8	1942
1943	0.366	0.356	0.481	32.5	31.0	31.9	25.4	2.42	1.79	---	---	---	---	1943
1944	---	---	---	13.8	8.76	26.8	19.8	8.01	8.61	---	---	---	---	1944
1945	---	---	---	46.0	32.2	6.69	7.72	4.65	16.9	11.5	3.31	---	---	1945
1946	---	---	12.6	39.8	17.9	2.36	3.13	0.490	0.545	0.994	0.896	---	---	1946
1947	---	---	---	12.1	12.4	32.3	21.7	8.16	3.32	8.66	---	---	---	1947
1948	---	---	---	27.6	58.0	8.89	7.75	12.2	0.843	0.551	---	---	---	1948
1949	---	---	0.649	28.1	20.7	5.05	2.10	2.53	0.526	---	---	---	---	1949
1950	---	---	---	9.85	85.8	59.0	36.9	8.62	16.2	22.4	---	---	---	1950
1951	---	---	---	47.0	51.8	7.33	1.18	1.72	4.21	3.82	---	---	---	1951
1952	---	---	---	16.6	3.61	2.34	7.44	1.66	0.506	0.404	---	---	---	1952
1953	---	---	---	8.01	8.26	16.2	3.88	0.628	1.46	1.82	---	---	---	1953
1954	---	---	---	17.3	27.7	19.9	2.10	0.460	0.508	0.488	---	---	---	1954
1955	---	---	---	21.3	16.6	24.6	5.32	0.664	0.740	2.59	---	---	---	1955
1956	---	---	---	22.8	55.1	24.4	20.5	7.37	21.4	2.52	---	---	---	1956
1957	---	---	---	29.3	27.5	23.3	45.5	11.0	25.9	15.1	10.6	---	---	1957
1958	---	---	---	4.99	2.46	1.79	16.5	2.06	0.367	1.23	---	---	---	1958
1959	---	---	---	33.2	25.7	14.9	5.04	1.46	1.69	5.57	---	---	---	1959
1960	---	---	---	28.8	24.1	11.9	4.78	0.890	0.393	---	---	---	---	1960
1961	---	---	---	9.03	7.00	0.956	0.174	0.090	1.12	1.52	---	---	---	1961
1962	---	---	---	15.1	35.7	53.3	25.5	26.8	10.8	---	---	---	---	1962
1963	---	---	---	34.6	20.9	23.8	8.63	1.58	0.355	0.763	---	---	---	1963
1964	---	---	---	16.8	22.9	23.0	22.6	2.80	4.56	18.7	---	---	---	1964
1965	---	---	---	34.7	65.7	39.5	23.5	3.67	7.94	19.2	---	---	---	1965
1966	---	---	---	61.4	73.5	37.7	14.5	4.27	3.10	1.79	2.14	---	---	1966
1967	---	---	---	47.0	63.3	20.4	3.15	0.466	0.049	0.054	0.104	---	---	1967
1968	---	---	---	18.9	4.41	12.6	46.8	44.7	41.1	16.9	---	---	---	1968
1969	---	---	---	40.2	55.7	17.7	3.61	3.80	2.01	4.24	---	---	---	1969
1970	---	---	---	23.9	78.4	73.3	34.2	1.26	3.04	2.26	---	---	---	1970
1971	---	---	---	33.1	23.7	7.87	3.78	1.24	0.750	3.34	---	---	---	1971
1972	---	---	---	22.6	31.6	9.82	1.51	0.489	0.596	0.992	1.30	0.448	---	1972
1973	0.278	0.248	6.67	2.76	3.07	2.24	0.971	2.34	2.31	14.2	4.03	1.14	3.64	1973
1974	0.441	0.380	0.394	23.6	73.6	55.6	4.97	14.8	12.9	3.56	3.07	1.27	16.2	1974
1975	0.820	0.711	0.521	16.9	66.0	31.4	34.8	2.89	0.838	0.556	0.918	0.579	13.2	1975
1976	0.497	0.464	0.538	28.2	6.40	3.64	2.57	0.277	0.163	0.389	0.394	0.181	3.61	1976
1977	0.107	0.122	0.305	4.44	1.41	1.61	1.60	0.301	1.30	4.43	5.70	3.47	2.08	1977
1978	1.22	0.398	0.195	30.9	42.7	5.25	11.4	5.63	4.77	1.68	1.00	0.672	6.86	1978
1979	0.489	0.348	0.534	19.7	74.8	31.7	3.33	0.479	0.247	0.104	0.624	0.458	11.1	1979
1980	0.431	0.387	0.396	17.2	2.24	0.190	0.018	0.077	0.169	0.704	1.14	0.325	1.92	1980
1981	0.112	0.530	2.09	1.08	1.53	10.2	8.75	1.68	3.66	11.4	6.16	2.60	4.17	1981
1982	0.415	0.385	0.590	23.5	34.6	7.99	8.09	3.63	1.08	16.7	7.17	4.34	8.91	1982
1983	0.862	0.730	12.5	33.5	20.2	16.9	13.4	0.858	1.45	3.08	3.05	1.52	9.02	1983
1984	0.399	0.442	2.63	22.9	7.39	17.8	7.64	0.827	0.053	2.46	2.73	0.682	5.47	1984
1985	0.261	0.171	3.42	25.7	21.9	23.6	33.2	24.7	35.4	20.6	7.32	1.81	16.6	1985
1986	0.991	0.755	4.37	58.3	61.0	22.2	1.89	0.782	0.516	1.36	1.11	0.810	13.0	1986
1987	0.613	0.491	4.97	38.4	6.74	5.76	1.21	0.401	0.065	0.137	0.192	---	---	1987
1988	0.062	0.026	0.216	10.4	0.762	0.411	1.80	0.177	0.031	0.106	0.178	0.708	1.23	1988
1989	0.052	0.038	0.044	15.2	22.6	12.5	11.9	0.940	0.337	0.178	0.234	0.052	5.37	1989
1990	0.003	0.003	3.05	4.69	3.59	4.17	3.90	0.158	0.008	0.004	0.007	0.015	1.64	1990
MEAN	0.674	0.542	2.87	22.6	26.4	16.3	10.6	3.99	4.30	4.77	2.91	1.21	7.96	MEAN

LOCATION - LAT 48 58 54 N DRAINAGE AREA, 4 150 km²
LONG 096 27 46 W NATURAL FLOW
INTERNATIONAL GAUGING STATION

REMARKS - PUBLISHED AS "AT CARIBOU" PRIOR TO APR 1929 AND AS "BELOW CUTOFF DITCH NEAR CARIBOU" FROM APR 1929-SEP 1936

ROSEAU RIVER NEAR CARIBOU - STATION NO. 05OD030

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1917	41.6 ON APR 17	38.8 ON APR 17	---	---	1917
1920	48.7 B ON APR 15	45.3 B ON APR 15	---	---	1920
1921	---	56.1 ON APR 11	0.283B ON MAR 01	122 000	1921
1922	---	38.5 ON MAY 25	0.425B ON FEB 01	185 000	1922
1923	---	84.4 ON MAY 01	0.623 ON SEP 02	232 000	1923
1924	---	34.8 ON APR 29	0.453B ON DEC 18	174 000	1924
1925	---	60.6 ON JUL 01	0.793B ON JAN 01	413 000	1925
1926	---	53.8 ON JUL 06	0.878B ON MAR 13	307 000	1926
1927	89.8 ON MAY 24	89.5 ON MAY 24	0.793 ON AUG 26	549 000	1927
1928	---	47.3 ON JUL 06	0.736B ON DEC 08	275 000	1928
1929	---	27.8 ON APR 10	0.311 ON AUG 30	102 000	1929
1930	---	39.1 ON MAY 20	---	---	1930
1931	52.3 ON APR 09	31.1 ON APR 09	---	---	1931
1932	---	48.4 ON APR 16	---	---	1932
1933	---	38.2 B ON APR 17	---	---	1933
1934	12.0 B AT 13:00 CST ON APR 13	10.7 B ON APR 13	---	---	1934
1935	25.1 B AT 10:00 CST ON APR 13	22.7 B ON APR 18	---	---	1935
1936	---	28.9 ON APR 27	---	---	1936
1937	---	38.5 ON MAY 11	0.170B ON JAN 01	238 000	1937
1938	---	49.6 ON MAY 25	---	---	1938
1939	9.63B AT 09:00 CST ON APR 20	7.36B ON APR 20	---	---	1939
1940	23.6 B ON APR 22	22.7 B ON APR 22	---	---	1940
1941	---	47.0 ON APR 24	0.142 ON AUG 12	342 000	1941
1942	---	58.6 ON APR 13	0.198B ON JAN 15	374 000	1942
1943	---	48.1 ON APR 21	---	---	1943
1944	---	36.0 ON JUN 27	---	---	1944
1945	---	49.8 ON APR 12	---	---	1945
1946	44.2 AT 15:30 CST ON APR 14	43.0 ON APR 05	---	---	1946
1947	---	50.4 ON JUN 28	---	---	1947
1948	---	69.7 ON MAY 02	---	---	1948
1949	---	41.9 ON APR 24	---	---	1949
1950	116 AT 20:30 CST ON MAY 19 *	114 ON MAY 19 *	---	---	1950
1951	62.3 AT 16:00 CST ON MAY 02	62.0 ON MAY 02	---	---	1951
1952	---	30.3 ON APR 15	---	---	1952
1953	22.6 AT 06:00 CST ON JUN 05	22.5 ON JUN 05	---	---	1953
1954	---	32.8 ON MAY 09	---	---	1954
1955	---	30.6 ON JUN 13	---	---	1955
1956	---	65.1 ON MAY 02	---	---	1956
1957	50.7 AT 11:00 CST ON JUL 12	50.4 ON JUL 19	---	---	1957
1958	74.8 AT 12:00 CST ON JUL 20	24.7 ON JUL 20	---	---	1958
1959	---	44.5 ON APR 20	---	---	1959
1960	46.7 AT 20:00 CST ON APR 27	46.4 ON APR 26	---	---	1960
1961	17.3 B ON MAR 29	17.0 B ON MAR 30	---	---	1961
1962	58.6 AT 03:30 CST ON JUN 11	58.3 ON JUN 11	---	---	1962
1963	---	42.8 ON APR 25	---	---	1963
1964	---	40.5 ON JUL 01	---	---	1964
1965	76.2 AT 10:15 CST ON MAY 06	75.9 ON MAY 06	---	---	1965
1966	88.1 AT 21:00 CST ON APR 28	88.1 ON APR 28	---	---	1966
1967	68.2 AT 02:00 CST ON MAY 12	68.0 ON MAY 11	---	---	1967
1968	---	52.7 ON JUL 02	---	---	1968
1969	70.2 AT 15:00 CST ON APR 28	69.9 ON APR 28	---	---	1969
1970	83.3 AT 15:00 CST ON MAY 15	83.0 ON MAY 15	---	---	1970
1971	49.3 AT 19:00 CST ON APR 21	49.0 ON APR 20	---	---	1971
1972	47.9 AT 02:00 CST ON MAY 02	47.6 ON APR 30	---	---	1972
1973	---	20.5 ON OCT 01	0.227B ON FEB 11	115 000	1973
1974	77.0 ON MAY 14	76.5 ON MAY 28	0.368B ON FEB 13	513 000	1974
1975	---	71.9 ON MAY 08	0.311 ON OCT 11	416 000	1975
1976	37.7 AT 00:30 CST ON APR 06	37.4 ON APR 08	0.091 ON SEP 29	114 000	1976
1977	10.8 B ON APR 10	10.3 B ON APR 10	0.099B ON JAN 17	65 400	1977
1978	64.0 AT 12:30 CST ON APR 26	62.9 ON APR 27	0.164B ON MAR 14	280 000	1978
1979	84.4 ON MAY 08	84.1 ON MAY 08	0.057 ON OCT 15	351 000	1979
1980	29.7 AT 15:00 CST ON APR 14	29.7 ON APR 14	0.001 ON AUG 03	60 700	1980
1981	21.0 AT 13:00 CST ON JUL 04	20.9 ON JUL 04	0.099B ON JAN 11	132 000	1981
1982	47.1 AT 18:30 CST ON MAY 01	47.0 ON APR 30	0.340B ON JAN 18	281 000	1982
1983	39.6 B ON APR 08	39.4 B ON APR 08	0.221 ON AUG 27	285 000	1983
1984	34.8 B AT 05:00 CST ON APR 03	34.0 B ON APR 03	0.008 ON OCT 04	173 000	1984
1985	42.2 ON JUL 16	42.2 ON JUL 17	0.147B ON FEB 25	523 000	1985
1986	67.1 ON MAY 13	66.8 ON APR 16	0.229 ON AUG 21	411 000	1986
1987	46.2 ON APR 12	---	---	---	1987
1988	28.3 B AT 15:00 CST ON APR 08	27.8 B ON APR 08	0.011 ON SEP 20	38 900	1988
1989	38.1 AT 17:00 CST ON MAY 04	37.9 ON MAY 02	0.004 ON DEC 31	169 000	1989
1990	11.3 AT 17:00 CST ON APR 03	11.0 B ON APR 03	0 ON SEP 15 *	51 700	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		251 000	MEAN

ROSEAU RIVER NEAR DOMINION CITY - STATION NO. 05OD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	0.566	0	0	32.9	19.1	6.42	4.91	1.93	1.60	2.35	2.42	1.13	6.10	1913
1914	0.170	0.142	0.708	16.1	17.7	17.0	8.44	2.12	---	---	---	---	---	1914
1916	---	---	---	---	---	---	---	---	---	---	---	---	---	
1917	0.500	0.333	0.635	13.1	15.0	2.46	5.32	2.98	2.79	2.72	2.31	0.396	---	1916
1918	0.090	0	0.763	4.92	5.75	6.13	2.13	0.840	0.517	0.642	2.53	0.715	3.29	1917
1919	0.954	0.526	0.870	19.0	9.69	9.59	3.41	1.34	0.805	1.45	4.02	1.67	6.36	1918
							46.0	19.8	3.46	2.84	1.98	1.21	9.75	1919
1920	0.532	0.528	1.62	31.1	12.2	13.0	1.61	0.372	0.480	1.25	0.847	0.311	5.29	1920
1921	0.225	0.340	0.651	24.1	10.8	4.94	1.11	1.02	1.75	1.95	0.801	0.714	4.03	1921
1922	0.299	0.142	0.462	16.9	23.7	13.2	2.56	1.56	4.86	2.18	4.32	1.36	6.17	1922
1923	0.868	0.864	0.432	18.4	28.3	5.76	4.24	3.48	1.20	2.01	2.06	0.954	8.12	1923
1924	0.090	0.030	0.113	10.6	23.4	6.18	2.39	5.44	2.11	6.64	2.71	0.730	5.72	1924
1925	0.240	0.259	3.88	27.9	15.1	48.4	44.7	4.38	5.21	7.08	4.12	1.20	13.6	1925
1926	0.484	0.292	2.55	16.9	5.14	17.0	33.8	5.04	10.4	23.8	9.66	2.97	10.7	1926
1927	2.00	1.40	7.29	64.2	87.4	56.4	15.0	2.38	2.66	4.23	---	---	---	1927
1928	---	---	---	7.92	7.12	17.2	41.8	15.8	4.99	6.61	---	---	---	1928
1929	---	---	---	17.8	5.83	5.74	2.03	0.463	0.390	0.661	---	---	---	1929
1930	---	---	---	17.6	29.5	8.08	13.9	0.961	0.216	0.938	---	---	---	
1931	---	---	---	13.4	6.42	3.56	1.41	0.538	0.601	1.00	3.14	---	---	1930
1932	---	---	---	32.8	22.4	3.08	3.27	0.393	1.29	2.31	---	---	---	1931
1933	---	---	---	27.9	15.4	11.6	0.416	0.047	0.121	0.257	---	---	---	1932
1934	---	---	---	5.45	1.85	1.13	0.553	0.025	0.026	0.668	---	---	---	1933
														1934
1935	---	---	---	15.2	8.93	2.60	3.05	1.41	1.39	0.917	---	---	---	1935
1936	---	---	---	11.0	17.9	2.93	0.259	0.001	0.293	0.196	---	---	---	1936
1937	---	---	---	13.2	36.2	10.7	7.25	26.7	2.12	1.38	---	---	---	1937
1938	---	---	---	10.1	33.6	27.7	2.10	0.442	0.161	0.235	---	---	---	1938
1939	---	---	---	3.61	3.04	2.94	0.918	0.031	0.169	0.464	0.399	---	---	1939
1940	---	---	---	6.06	5.50	1.41	0.248	0.393	0.683	0.714	---	---	---	
1941	---	---	---	26.1	25.4	18.0	5.41	0.282	7.96	41.8	---	---	---	1940
1942	---	---	---	49.2	44.7	17.6	1.16	3.63	19.6	4.58	---	---	---	1941
1943	---	---	---	34.6	34.6	33.8	28.3	2.84	1.57	0.780	---	---	---	1942
1944	---	---	---	14.8	9.25	28.4	23.0	10.4	17.2	3.51	17.5	---	---	1943
														1944
1945	---	---	---	54.1	40.5	8.19	6.97	4.21	18.5	13.7	---	---	---	
1946	---	---	14.4	44.2	19.3	3.01	3.15	0.394	0.806	1.52	---	---	---	1945
1947	---	---	---	16.0	13.3	32.8	24.9	9.20	4.14	13.4	---	---	---	1946
1948	---	---	---	37.1	60.4	13.1	10.8	14.9	1.38	0.367	0.728	0.512	---	1947
1949	0.498	0.439	0.409	28.0	23.4	6.68	2.06	3.75	0.524	3.52	6.05	1.65	6.42	1948
														1949
1950	0.662	0.539	0.601	21.6	143	61.3	40.1	11.0	16.2	27.6	7.87	2.48	28.0	1950
1951	1.38	0.916	1.79	45.9	57.5	10.9	1.10	1.30	4.08	3.81	1.90	1.07	11.0	1951
1952	0.400	0.403	0.468	13.6	4.48	2.54	7.04	1.67	0.381	0.391	0.595	0.465	2.69	1952
1953	0.280	0.358	1.18	9.20	8.49	15.3	4.43	0.751	1.13	4.68	1.49	0.566	3.79	1953
1954	0.357	0.413	0.817	18.6	31.2	27.1	3.43	0.573	0.675	0.635	0.485	0.442	7.06	1954
1955	0.323	0.210	0.196	31.3	20.4	28.8	7.42	0.950	0.727	3.21	1.90	0.983	8.01	1955
1956	0.611	0.603	0.287	30.5	39.7	42.0	24.8	8.74	26.2	3.30	22.8	4.11	17.5	1956
1957	0.636	0.480	6.58	41.7	32.7	28.2	38.1	15.5	26.1	16.4	15.0	2.13	20.2	1957
1958	0.753	0.623	1.40	5.54	27.6	7.10	15.9	2.84	0.402	1.09	3.44	2.42	3.31	1958
1959	0.838	0.413	0.477	36.0	29.7	21.5	5.42	1.61	1.62	5.99	4.73	0.640	9.08	1959
1960	0.362	0.356	0.205	38.8	27.7	11.6	4.77	1.25	0.570	0.360	2.08	0.256	7.33	1960
1961	0.141	0.042	2.29	10.9	7.74	1.11	0.265	0.103	0.872	2.10	1.68	0.396	2.23	1961
1962	0.346	0.349	0.132	16.7	42.5	58.8	28.4	2.54	13.8	3.10	3.79	2.72	16.2	1962
1963	0.469	0.331	4.00	38.4	23.9	29.0	15.2	3.09	0.880	0.777	0.967	0.293	9.51	1963
1964	0.071	0.047	0.127	19.4	26.8	24.1	24.8	4.19	4.22	19.4	8.44	1.37	11.1	1964
1965	0.152	0.067	0.092	43.7	71.6	46.0	26.6	5.51	8.28	23.5	14.1	7.96	20.7	1965
1966	3.88	2.13	3.99	92.8	97.1	48.9	19.6	4.45	8.27	1.75	1.55	1.92	24.0	1966
1967	0.555	0.217	1.39	73.3	76.2	25.2	3.89	0.677	0.080	0.294	0.388	0.718	15.3	1967
1968	0.345	0.090	0.601	18.8	5.53	31.7	51.4	45.7	47.0	19.9	10.7	3.40	19.5	1968
1969	1.16	0.846	1.01	45.9	59.5	20.3	4.25	3.57	2.03	4.26	3.07	1.46	12.3	1969
1970	0.994	0.614	0.548	28.5	93.2	81.2	39.1	2.00	3.26	2.12	7.34	1.50	21.8	1970
1971	0.687	0.424	0.621	35.9	27.4	19.2	3.70	1.24	0.627	2.88	11.2	4.41	8.15	1971
1972	0.873	0.490	1.25	22.9	33.6	10.2	2.03	0.640	0.400	1.09	0.890	6.25	6.22	1972
1973	0.301	0.261	6.88	3.16	3.64	2.48	4.07	2.35	4.98	17.1	6.26	1.22	4.21	1973
1974	0.678	0.547	0.482	37.4	100	64.3	7.50	13.3	14.4	3.89	3.22	1.34	20.6	1974
1975	0.913	0.939	0.656	18.4	64.8	33.3	37.2	3.74	0.787	0.799	1.17	0.595	13.7	1975
1976	0.506	0.274	0.394	27.6	6.94	3.26	2.72	0.288	0.107	0.247	0.322	0.087	3.54	1976
1977	0.055	0.086	0.404	4.16	1.27	1.61	1.58	0.394	0.986	5.05	4.38	3.62	1.97	1977
1978	1.52	0.507	0.743	34.1	46.5	6.11	10.1	6.08	4.44	1.74	1.12	0.602	9.53	1978
1979	0.500	0.362	0.478	31.7	85.9	39.9	3.16	0.788	0.308	0.179	0.569	0.453	13.8	1979
1980	0.386	0.335	0.290	19.4	2.94	0.337	0.097	0.004	0.453	1.26	0.990	0.307	2.21	1980
1981	0.310	0.303	1.47	5.17	1.39	9.26	8.37	1.91	3.43	1.10	6.56	2.68	4.18	1981
1982	0.585	0.352	1.97	30.4	40.2	11.6	9.75	3.92	1.91	18.6	9.96	4.40	11.2	1982
1983	1.22	0.647	25.6	45.2	22.5	19.3	15.3	0.973	1.70	2.57	3.92	1.86	12.0	1983
1984	0.597	0.496	1.73	25.5	7.89	19.3	8.36	1.36	1.09	3.03	3.39	0.788	6.09	1984
1985	0.329	0.195	2.65	26.7	22.0	24.1	32.5	24.4	38.0	23.0	7.82	1.94	17.0	
1986	1.02	0.654	8.30	74.6	85.4	29.1	3.24	0.977	0.479	1.54	1.36	0.775	17.4	1985
1987	0.657	0.520	5.34	49.4	10.7	6.94	1.60	0.561	0.111	0.394	0.450	0.246	6.37	1986
1988	0.064	0.023	0.191	10.7	1.18	0.527	1.61	0.216	0.055	0.133	0.164	0.579	1.28	1987
1989	0.097	0.064	0.043	15.6	25.0	12.2	12.6	1.23	0.451	0.274	0.240	0.147	5.69	1988
														1989
1990	0.111	0.070	2.64	7.35	3.73	7.27	5.89	0.314	0.047	0.068	0.075	0.053	2.30	1990
MEAN	0.612	0.424	2.30	26.3	30.0	18.2	11.8	4.56	4.79	5.15	4.14	1.41	9.80	MEAN

LOCATION - LAT 49 11 53 N LONG 097 03 15 W DRAINAGE AREA, 5 260 km² NATURAL FLOW

ROSEAU RIVER NEAR DOMINION CITY - STATION NO. 05OD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	56.1 ON APR 25	0 E ON FEB 01 *	193 000	1913
1914	---	24.5 ON APR 30	---	---	1914
1916	---	---	---	---	1916
1917	---	30.3B ON APR 29	0.071 ON SEP 22	104 000	1917
1918	---	10.9 ON JUN 01	0 B ON JAN 26	74 600	1918
1919	---	72.2 ON JUL 23	0.227B ON FEB 28	307 000	1919
1920	---	61.2B ON APR 18	0.142 ON AUG 27	167 000	1920
1921	---	56.4 ON APR 16	0.227B ON JAN 01	127 000	1921
1922	---	34.5 ON MAY 30	0.113B ON FEB 07	194 000	1922
1923	---	61.0 ON MAY 04	0.255B ON MAR 19	256 000	1923
1924	---	55.2 ON APR 27	0 B ON JAN 20	181 000	1924
1925	---	60.3 ON JUN 21	0.170B ON JAN 16	428 000	1925
1926	---	44.2 ON JUL 09	0.241B ON MAR 14	338 000	1926
1927	---	142 ON MAY 10	---	---	1927
1928	---	49.0 ON JUL 07	---	---	1928
1929	---	28.6 ON APR 12	---	---	1929
1930	---	40.8 ON MAY 21	---	---	1930
1931	---	35.7 ON APR 09	---	---	1931
1932	---	54.7 ON APR 16	---	---	1932
1933	---	47.0 ON APR 18	---	---	1933
1934	---	---	---	---	1934
1935	---	---	---	---	1935
1936	---	30.3 ON MAY 02	0 ON AUG 06	---	1936
1937	---	48.4 ON MAY 02	---	---	1937
1938	---	49.6 ON MAY 29	---	---	1938
1939	---	---	---	---	1939
1940	---	22.2 ON APR 24	---	---	1940
1941	---	50.1 ON OCT 10	---	---	1941
1942	---	69.9 ON APR 04	---	---	1942
1943	---	49.6 ON APR 24	---	---	1943
1944	---	41.3 ON SEP 05	---	---	1944
1945	---	59.7 ON MAR 28	---	---	1945
1946	---	48.7 ON APR 07	---	---	1946
1947	---	51.5 ON JUN 30	---	---	1947
1948	---	81.3 ON APR 21	---	---	1948
1949	---	43.6 ON APR 28	0.275 ON OCT 04	203 000	1949
1950	---	230 ON MAY 06 *	0.481B ON JAN 30	882 000	1950
1951	---	73.9 ON MAY 02	0.340 ON AUG 03	347 000	1951
1952	---	26.9B ON APR 16	0.198 ON SEP 27	85 200	1952
1953	---	33.7 ON JUN 05	0.198B ON JAN 16	119 000	1953
1954	---	49.6 ON APR 30	0.255B ON NOV 08	223 000	1954
1955	---	47.0 ON APR 23	0.085 ON MAR 23	253 000	1955
1956	---	87.8 ON APR 25	0.198B ON MAR 18	555 000	1956
1957	---	93.7 ON JUL 14	0.368B ON MAR 19	637 000	1957
1958	---	24.1 ON JUL 21	0.198 ON OCT 07	105 000	1958
1959	---	51.8B ON APR 13	0.283B ON FEB 24	286 000	1959
1960	---	74.8 ON APR 15	0.074B ON JAN 21	232 000	1960
1961	---	15.9B ON APR 03	0.014 ON SEP 07	70 400	1961
1962	---	77.0 ON MAY 25	0.051B ON MAR 21	511 000	1962
1963	---	46.2 ON JUN 27	0.020B ON JAN 16	300 000	1963
1964	40.8 AT 07:00 CST ON JUN 21	40.2 ON JUN 21	0 B ON MAR 09	351 000	1964
1965	90.6 AT 12:00 CST ON MAY 07	90.0 ON MAY 07	0.017B ON MAR 01	653 000	1965
1966	131 AT 01:00 CST ON MAY 05	130 ON MAY 05	1.07 B ON DEC 31	758 000	1966
1967	124 AT 01:00 CST ON APR 22	121 ON APR 22	0.003 ON SEP 30	482 000	1967
1968	69.5 AT 11:00 CST ON JUL 14	69.7 ON JUL 14	0.017B ON FEB 25	618 000	1968
1969	75.6 AT 02:30 CST ON MAY 01	75.6 ON APR 30	0.722B ON APR 01	388 000	1969
1970	110 AT 18:00 CST ON MAY 16	110 ON MAY 16	0.430B ON MAR 27	687 000	1970
1971	54.7 AT 21:09 CST ON APR 18	54.4 ON APR 18	0.317B ON FEB 09	257 000	1971
1972	---	47.6 ON MAY 01	0.156B ON DEC 11	197 000	1972
1973	---	20.4 ON OCT 04	0.229B ON FEB 13	133 000	1973
1974	146 AT 09:30 CST ON MAY 22 *	145 ON MAY 22	0.456B ON MAR 19	651 000	1974
1975	75.3 AT 00:00 CST ON MAY 08	75.3 ON MAY 08	0.385 ON SEP 27	432 000	1975
1976	---	42.2B ON APR 07	0 ON SEP 21	112 000	1976
1977	---	11.8B ON APR 12	0.048B ON JAN 13	62 200	1977
1978	64.3 AT 10:29 CST ON APR 29	64.0 ON APR 28	0.266B ON MAR 06	301 000	1978
1979	104 AT 14:19 CST ON MAY 13	103 ON MAY 13	0.096 ON OCT 10	434 000	1979
1980	45.0 AT 22:01 CST ON APR 14	40.8 ON APR 15	0 ON JUL 13	69 900	1980
1981	16.8 AT 07:21 CST ON JUL 06	16.6 ON JUL 05	0.089B ON JAN 17	132 000	1981
1982	50.0 AT 00:15 CST ON MAY 05	50.0 ON MAY 04	0.257B ON FEB 17	353 000	1982
1983	88.9 AT 00:01 CST ON APR 09	86.5 ON APR 09	0.435B ON FEB 08	377 000	1983
1984	67.1 AT 21:50 CST ON APR 05	56.1B ON APR 05	0 B ON FEB 06	192 000	1984
1985	64.4 AT 01:23 CST ON APR 05	54.6 ON APR 05	0.140B ON FEB 10	537 000	1985
1986	101 AT 02:01 CST ON MAY 02	100 ON MAY 02	0.303 ON AUG 27	544 000	1986
1987	72.3 AT 06:29 CST ON APR 09	71.4 ON APR 09	0.035 ON SEP 16	201 000	1987
1988	32.2 AT 02:30 CST ON APR 11	27.8B ON APR 11	0.002 ON SEP 09	40 300	1988
1989	43.4 AT 20:10 CST ON APR 22	41.0 ON APR 23	0.028B ON MAR 21	179 000	1989
1990	21.3 AT 23:01 CST ON APR 03	20.6B ON APR 04	0.003 ON SEP 22	72 700	1990
				309 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEISLE CREEK NEAR ROSEISLE - STATION NO. 05OF009

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	2.66	0.572	0.241	0.132	0.087	0.150	0.176	---	---	0.496	1965
1966	---	---	1.74	3.08	1.54	0.129	1.32	0.033	0.010	0.011	---	---	0.983	1966
1967	---	---	0.078	4.51	1.04	0.059	0.340	0.002	0	0	---	---	0.744	1967
1968	---	---	0.527	0.362	0.454	0.094	0.319	2.34	0.767	0.201	---	---	0.636	1968
1969	---	---	0	6.09	1.11	1.43	2.53	0.142	0.029	0.054	---	---	1.41	1969
1970	---	---	0	5.97	5.57	0.342	0.056	0.004	0.002	0.012	---	---	1.49	1970
1971	---	---	0	4.23	0.508	0.990	0.422	0.064	0.074	0.619	---	---	0.852	1971
1972	---	---	0.981	2.73	0.685	0.110	0.026	0.019	0.012	0.016	---	---	0.568	1972
1973	---	---	0.576	0.180	0.137	0.464	0.157	0.075	0.044	0.039	---	---	0.205	1973
1974	---	---	0.001	7.81	3.72	0.441	0.029	0.007	0.005	0.008	---	---	1.49	1974
1975	---	---	0.006	1.57	0.633	0.891	0.332	0.014	0.010	0.024	---	---	0.430	1975
1976	---	---	0.075	5.07	0.425	0.081	0.004	0.004	0	0	---	---	0.670	1976
1977	---	---	0.016	0.112	0.753	0.052	0.002	0	0.232	0.128	---	---	0.162	1977
1978	---	---	0.017	3.49	0.877	0.413	0.728	0.069	0.082	0.051	---	---	0.709	1978
1979	---	---	0.020	6.77	4.01	0.605	0.116	0.028	0.012	0.025	---	---	1.44	1979
1980	---	---	0	1.37	0.111	0.009	0.002	0	0.001	0.015	---	---	0.185	1980
1981	---	0.138	0.119	0.081	0.075	0.419	0.110	0.050	0.003	0.020	---	---	0.109	1981
1982	---	---	0.175	1.04	0.169	0.065	0.014	0.001	0	0.014	---	---	0.182	1982
1983	---	---	0.322	2.37	0.155	0.064	0.014	0	0	0	---	---	0.360	1983
1984	---	---	0.186	0.247	0.416	0.225	0.014	0	0	0.002	---	---	0.136	1984
1985	---	---	2.62	1.50	0.146	0.047	0.012	1.16	0.076	0.206	---	---	0.732	1985
1986	---	---	2.90	2.82	2.33	0.164	0.249	0.053	0.012	0.015	---	---	1.07	1986
1987	---	---	0.219	3.71	0.135	0.032	0.007	0.050	0.006	0.012	---	---	0.513	1987
1988	---	---	0.311	0.617	0.139	0.010	0	0	0	0	---	---	0.134	1988
1989	---	---	0	1.26	0.073	0.013	0.001	0	0	0	---	---	0.165	1989
1990	---	---	0.504	1.92	0.224	1.27	0.362	0.005	0	0	---	---	0.529	1990
MEAN	---	0.138	0.438	2.75	0.993	0.333	0.280	0.162	0.058	0.066	---	---	0.631	MEAN

LOCATION - LAT 49 30 10 N LONG 098 19 40 W DRAINAGE AREA, 206 km² NATURAL FLOW

ROSEISLE CREEK NEAR ROSEISLE - STATION NO. 05OF009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---				
1966	---	11.0 ON APR 15	0 B ON MAR 01 *	10 500	1965
1967	---	14.3 B ON APR 01	0 B ON MAR 01	20 800	1966
1968	---	20.5 ON APR 20	0 B ON MAR 01	15 800	1967
1969	---	18.4 ON AUG 25	0 B ON MAR 01	13 500	1968
		29.4 ON APR 12	0 B ON MAR 01	29 800	1969
1970	---				
1971	---	40.5 ON APR 29 *	0 B ON MAR 01	31 500	1970
1972	---	27.1 ON APR 10	0 B ON MAR 01	18 000	1971
1973	---	6.06B ON APR 14	0 B ON MAR 01	12 000	1972
1974	40.2 AT 12:05 CST ON APR 21 *	1.03 ON JUN 16	0 B ON MAR 01	4 340	1973
		37.7 ON APR 21	0.001B ON MAR 05	31 500	1974
1975	24.6 AT 13:41 CST ON JUN 28	8.35 ON JUN 28	0.001B ON MAR 24	9 100	1975
1976	21.7 AT 04:17 CST ON APR 06	16.8 ON APR 06	0 ON JUL 28	14 200	1976
1977	8.41 AT 05:25 CST ON MAY 20	6.40 ON MAY 19	0 B ON MAR 01	3 430	1977
1978	---	10.1 B ON APR 10	0 B ON MAR 01	15 000	1978
1979	37.7 AT 04:50 CST ON APR 21	34.0 ON APR 21	0.005 ON SEP 17	30 400	1979
1980	---				
1981	---	5.61B ON APR 06	0 B ON MAR 01	3 920	1980
1982	5.83B AT 20:31 CST ON APR 12	4.84E ON JUN 24	0.001 ON SEP 15	2 310	1981
1983	11.7 B AT 22:14 CST ON APR 07	4.25B ON APR 12	0 B ON MAR 01	3 860	1982
1984	---	8.93B ON APR 06	0 B ON MAR 01	7 630	1983
		1.30E ON JUN 02	0 B ON MAR 01	2 880	1984
1985	25.7 AT 18:08 CST ON AUG 17	9.63B ON MAR 25	0 B ON MAR 01	15 500	1985
1986	23.8 AT 04:05 CST ON MAR 29	19.6 ON MAR 29	0 B ON MAR 01	22 600	1986
1987	33.1 AT 05:29 CST ON APR 06	23.1 ON APR 06	0 B ON MAR 01	10 900	1987
1988	5.96B AT 08:53 CST ON APR 03	4.19B ON APR 03	0 ON JUL 01	2 830	1988
1989	9.24 AT 05:19 CST ON APR 16	6.04B ON APR 16	0 B ON MAR 01	3 490	1989
1990	14.0 AT 10:34 CST ON JUN 02	11.1 B ON APR 01	0 B ON MAR 01	11 200	1990
				13 300	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SASKATCHEWAN RIVER AT GRAND RAPIDS - STATION NO. 05KL001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	1 470	1 830	1 780	770	---	---	1912
1913	---	---	---	---	---	1 300	1 440	1 560	1 330	939	566	340	---	1913
1914	---	---	---	---	912	925	1 190	1 150	---	---	---	---	---	1914
1915	127	142	166	285	536	715	1 510	2 100	2 140	1 350	583	227	827	1915
1916	311	215	153	220	952	1 400	1 910	2 320	2 110	1 740	1 010	579	1 080	1916
1917	453	294	243	300	1 030	1 890	2 220	1 910	1 240	778	508	309	936	1917
1918	266	215	226	503	987	869	1 190	1 320	---	---	---	---	---	1918
1950	---	---	---	---	---	---	---	---	---	518	---	---	---	1950
1951	---	---	---	---	1 050	1 320	1 460	1 520	1 340	1 210	---	---	---	1951
1952	---	---	---	---	1 560	1 580	1 580	1 510	1 100	728	---	---	---	1952
1953	---	---	---	---	717	1 150	1 800	1 800	1 410	847	---	---	---	1953
1954	---	---	---	---	638	1 440	1 910	1 880	1 750	1 990	1 420	---	---	1954
1955	---	---	---	---	1 570	1 820	1 740	1 420	916	615	---	---	---	1955
1956	---	---	---	---	1 430	1 790	1 570	1 210	900	644	---	---	---	1956
1957	---	---	---	---	1 010	1 310	1 080	718	608	546	---	---	---	1957
1958	---	---	---	---	1 160	1 060	1 120	1 020	729	593	---	---	---	1958
1959	---	---	---	---	809	849	1 240	1 090	786	637	---	---	---	1959
1960	---	---	---	---	1 010	1 150	1 150	1 010	619	---	---	---	---	1960
1961	---	---	---	---	705	824	973	762	672	---	---	---	---	1961
1962	---	---	---	---	---	1 100	1 050	---	---	---	---	---	---	1962
1964	---	---	---	---	---	---	---	---	0	0	0	0	---	1964
1965	0	0	131	634	1 410	1 750	2 110	1 600	997	818	569	459	879	1965
1966	606	580	558	456	1 360	773	1 440	895	799	379	501	612	749	1966
1967	699	702	612	473	456	532	521	561	601	608	624	578	580	1967
1968	691	685	215	393	482	300	212	208	239	338	529	792	423	1968
1969	945	858	807	527	423	365	477	698	409	574	692	826	633	1969
1970	1 030	1 010	858	369	425	481	548	583	537	302	558	856	628	1970
1971	876	857	964	629	522	492	429	528	591	439	612	793	643	1971
1972	853	908	770	659	529	512	628	1 040	660	701	611	872	729	1972
1973	804	803	682	385	87.8	541R	933R	705	242R	441	550	686	571 R	1973
1974	1 000	995	1 100R	890	600 R	1 820R	1 170R	696R	852R	528	583	966	932 R	1974
1975	1 150	1 140	1 110	411	336	360	765	683	757	485	354	986	710	1975
1976	892	768R	899	448R	358	339	136	110	116	129	317	1 030R	445 R	1976
1977	962	801	471	250	565	259	263	159	363	488	730	730R	502 R	1977
1978	708	578	438	409	203	158	180	252	380	668R	743	838	463 R	1978
1979	1 180	1 130	639	301	279	803	461	246	173	222	250	712	530	1979
1980	888	911	827	199	227	248	728	589	544	753	727	720	614	1980
1981	528	323	117	127	257	634	785	996	726	461	408	868	521	1981
1982	1 180	686	719	564	288	211	217	265	498	386	438	453	491	1982
1983	584	1 190	1 110	696	309	364	172	374	344	591	480	1 050	602	1983
1984	760	460	894	420	449	487	326	387R	227	366	379	660	486 R	1984
1985	993	460	182	242	345	294	324	387	621	379	830	692	479	1985
1986	695	1 060	625	495	206	273	436	637	554	569	877	731	577	1986
1987	984	1 110	805	762	431	403	340	323	274	237	178	187	499	1987
1988	856	706	205	183	220	196	169	256	232	339	197	193	312	1988
1989	279	1 000	759	289	177	170	252	207	237	438	534	582	407	1989
1990	284	613	434	425	367	525	919	896	704	909	353	581	585	1990
MEAN	719	707R	591R	425R	652 R	809R	934R	910R	748R	654R	560	642R	615 R	MEAN

LOCATION - LAT 53 09 50 N
LONG 099 20 56 W

DRAINAGE AREA, 364 000 km²
REGULATED SINCE 1964

DATA CONTRIBUTED BY - MANITOBA HYDRO

R - REVISED SINCE JAN 01 1989

SASKATCHEWAN RIVER AT GRAND RAPIDS - STATION NO. 05KL001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	---	---	---	1913
1914	---	1 610 ON AUG 26	---	---	1914
		1 550 ON AUG 05	---		
1915	---	---	---	---	1915
1916	---	2 360 ON SEP 12	127 B ON JAN 01	26 100 000	1916
1917	---	2 480 ON AUG 20 *	153 B ON MAR 01	34 100 000	1917
1918	---	2 310 ON JUL 18	221 B ON MAR 02	29 500 000	1918
		---	---	---	
1950	---	---	---	---	1950
1951	---	---	---	---	1951
1952	---	---	---	---	1952
1953	---	1 790 ON JUL 29	---	---	1953
1954	---	1 980 ON AUG 31	---	---	1954
		---	---	---	
1955	---	---	---	---	1955
1956	---	---	---	---	1956
1957	---	---	---	---	1957
1958	---	---	---	---	1958
1959	---	---	---	---	1959
1960	---	---	---	---	1960
1961	---	---	---	---	1961
1962	---	---	---	---	1962
1964	---	---	---	---	1964
1965	---	2 110 ON JUL 01	0 ON JAN 01 *	27 700 000	1965
1966	---	1 440 ON JUL 01	379 ON OCT 01	23 600 000	1966
1967	---	864 ON NOV 29	238 ON DEC 24	18 300 000	1967
1968	---	1 050 ON DEC 31	1.56 ON AUG 04	13 400 000	1968
1969	---	1 110 ON JAN 10	10.2 ON JUN 15	20 000 000	1969
1970	---	1 230 ON FEB 03	118 ON APR 26	19 800 000	1970
1971	---	1 200 ON MAR 11	133 ON MAY 23	20 300 000	1971
1972	---	1 190 ON AUG 12	181 ON MAY 21	23 000 000	1972
1973	---	1 270R ON JUN 26	49.8 ON MAY 19	18 000 000	1973
1974	---	2 140R ON JUN 19	196 ON DEC 26	29 400 000	1974
1975	---	1 320 ON FEB 14	91.2 ON NOV 15	22 400 000	1975
1976	---	1 290 ON JAN 08	80.7 ON JUL 04	14 100 000	1976
1977	---	1 400 ON JAN 10	53.8 ON OCT 02	15 800 000	1977
1978	---	1 230 ON DEC 08	96.6 ON APR 30	14 600 000	1978
1979	---	1 420 ON JUN 18	76.7 ON SEP 16	16 700 000	1979
1980	---	1 020 ON NOV 15	67.9 ON MAY 31	19 400 000	1980
1981	---	1 410 ON AUG 08	98.4 ON MAY 03	16 400 000	1981
1982	---	1 300 ON JAN 03	56.4 ON OCT 24	15 500 000	1982
1983	---	1 340 ON FEB 09	62.6 ON JUN 12	19 000 000	1983
1984	---	1 420 ON MAR 12	92.3 ON SEP 23	15 400 000	1984
1985	---	1 280 ON JAN 18	87.5 ON JUL 27	15 100 000	1985
1986	---	1 340 ON NOV 20	98.2 ON JUL 01	18 200 000	1986
1987	---	1 390 ON MAR 02	96.0 ON NOV 15	15 700 000	1987
1988	---	1 240 ON FEB 11	93.0 ON MAY 09	9 860 000	1988
1989	---	1 230 ON NOV 16	96.0 ON AUG 16	12 800 000	1989
1990	---	1 250 ON OCT 01	94.0 ON MAY 28	18 400 000	1990
				19 400 000	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1989

SASKATCHEWAN RIVER AT THE PAS - STATION NO. 05KJ001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	156	156	184	968	1 510	1 430	1 710	1 650	1 270	708	396	227	867	1913
1914	170	142	127	708	1 260	1 280	1 650	1 140	714	585	476	246	712	1914
1915	127	146	158	696	710	1 270	2 240	2 680	1 850	966	594	198	975	1915
1916	152	121	146	953	1 250	1 740	2 650	2 520	1 970	1 420	845	288	1 170	1916
1917	182	176	175	507	1 930	2 280	2 400	1 600	900	596	540	204	963	1917
1918	124	146	179	1 030	846	927	1 410	1 180	832	589	356	150	650	1918
1919	135	147	126	460	647	842	873	761	664	569	162	88.7	458	1919
1920	82.6	79.4	82.6	130	1 730	1 960	1 740	1 500	771	434	254	166	747	1920
1921	83.0	78.7	98.2	262	1 750	1 690	1 620	1 140	833	560	342	234	729	1921
1922	177	139	132	430	1 260	1 430	1 390	1 080	985	601	394	176	687	1922
1923	123	117	112	345	888	1 330	2 280	1 830	1 240	646	262	156	782	1923
1924	97.4	92.0	113	174	949	977	1 240	942	839	478	214	178	526	1924
1925	136	115	124	696	1 230	1 310	1 560	1 110	1 200	870	462	258	759	1925
1926	177	154	200	551	999	698	981	725	975	1 280	844	225	654	1926
1927	215	165	164	493	1 790	1 820	2 150	1 980	1 510	1 350	758	403	1 070	1927
1928	303	273	261	763	1 460	1 300	2 180	1 860	880	417	213	111	839	1928
1929	72.8	70.8	89.9	303	802	1 220	1 140	529	419	242	117	63.9	424	1929
1930	54.7	53.8	70.2	634	737	964	1 180	813	529	328	243	132	480	1930
1931	112	102	118	480	440	503	1 050	815	644	544	320	---	---	1931
1932	---	---	---	---	1 140	1 500	1 170	1 050	803	507	353	181	---	1932
1933	170	160	150	510	1 440	1 320	1 510	913	686	421	322	243	672	1933
1934	172	202	234	676	1 550	1 420	1 610	1 000	657	469	426	295	730	1934
1935	191	143	213	537	1 050	1 080	1 380	1 250	630	331	155	133	596	1935
1936	102	90.7	91.3	436	1 600	1 260	876	529	487	260	165	87.4	500	1936
1937	60.1	57.1	63.8	506	637	624	933	711	388	304	---	---	---	1937
1938	---	---	---	---	650	1 020	1 360	896	638	425	---	---	---	1938
1939	---	---	---	---	688	705	1 420	818	462	302	---	---	---	1939
1940	---	---	---	---	1 250	948	689	603	415	426	189	115	---	1940
1941	102	75.9	75.6	620	388	360	540	470	413	274	267	83.9	307	1941
1942	56.4	61.5	68.1	425	539	1 150	1 630	1 510	942	610	318	179	627	1942
1943	158	134	147	1 030	1 370	1 010	1 420	1 090	631	346	270	122	647	1943
1944	110	104	103	601	495	880	1 470	1 090	779	437	214	137	537	1944
1945	98.8	118	133	512	823	1 210	1 400	876	582	527	298	192	567	1945
1946	173	169	192	1 000	717	975	1 360	834	569	429	245	120	568	1946
1947	162	154	173	818	1 250	1 330	1 320	852	678	642	469	283	698	1947
1948	264	203	180	733	2 250	2 050	2 230	1 450	927	437	197	103	955	1948
1949	88.7	76.2	102	711	502	790	703	713	430	289	322	120	405	1949
1950	95.1	121	120	444	954	843	1 390	1 060	606	370	214	150	534	1950
1951	175	155	153	759	1 510	1 590	1 750	1 610	1 290	1 110	717	395	940	1951
1952	212	229	240	1 190	1 840	1 360	1 840	1 490	915	531	381	153	868	1952
1953	136	128	159	513	1 220	1 630	2 060	1 490	1 020	517	320	145	783	1953
1954	134	133	187	302	1 270	1 880	2 070	1 700	1 980	1 680	1 150	814	1 110	1954
1955	369	346	273	1 160	1 820	1 880	1 620	1 200	604	426	154	145	836	1955
1956	150	176	185	620	1 960	1 760	1 430	1 070	686	471	307	154	749	1956
1957	131	97.0	124	575	1 490	1 370	912	581	515	377	383	206	565	1957
1958	153	158	196	1 060	1 210	1 200	1 190	904	494	359	224	123	608	1958
1959	153	141	159	957	655	949	1 430	915	491	475	306	262	577	1959
1960	207	178	174	1 040	975	1 020	1 060	786	392	271	187	146	537	1960
1961	135	129	137	526	634	1 120	798	610	368	229	155	88.8	412	1961
1962	125	153	179	785	1 130	851	897	752	421	124	104	110	439	1962
1963	79.4	78.2	87.1	552	817	776	1 110	943	590	417	281	141	500	1963
1964	163	218	212	518	798	905	1 450	699	477	538	389	158	545	1964
1965	208	207	225	656	1 390	1 570	2 300	1 840	983	864	575	319	933	1965
1966	341	225	354	858	1 160	1 230	1 500	1 140	548	338	214	139	673	1966
1967	230	395	404	304	1 010	1 100	1 040	688	440	334	214	153	527	1967
1968	425	213	274	580	513	458	544	547	488	355	360	258	418	1968
1969	413	473	429	932	1 100	688	1 260	954	584	532	327	281	666	1969
1970	424	522	390	441	1 170	775	1 150	900	501	408	410	333	621	1970
1971	483	577	534	806	1 190	888	890	817	436	370	436	337	648	1971
1972	459	403	486	673	1 550	1 080	1 330	1 050	563	536	352	253	730	1972
1973	472	526	511	648	1 000	1 160	979	582	556	469	306	369	632	1973
1974	454	537	600	966	2 330	1 860	1 390	948	837	712	546	430	970	1974
1975	487	627	606	621	1 240	1 160	1 050	595	450	456	443	335	672	1975
1976	413	541	577	786	813	1 080	493	498	493	475	284	292	679	1976
1977	468	520	345	534	477	594	402	365	438	355	250	268	417	1977
1978	309	338	345	399	1 060	872	799	543	577	619	388	312	558	1978
1979	451	513	564	543	1 570	1 120	538	388	344	313	295	245	574	1979
1980	284	497	500	711	587	690	798	438	372	487	398	222	498	1980
1981	401	464	418	751	558	872	742	1 080	691	512	424	248	597	1981
1982	378	481	433	588	886	618	689	545	384	412	327	268	501	1982
1983	417	499	464	535	1 010	671	771	496	397	436	415	276	533	1983
1984	322	375	352	838	667	689	521	341	357	391	295	266	451	1984
1985	280	311	363	932	1 350	872	589	427	431	402	309	305	549	1985
1986	440	399	472	825	815	799	793	991	534	655	483	425	638	1986
1987	453	578	611	852	639	439	362	398	393	364	300	235	468	1987
1988	254	331	220	528	587	288	305	265	292	268	175	183	308	1988
1989	---	---	244	356	555	406	390	461	567	382	237	262	---	1989
1990	293	357	458	842	885	1 170	1 570	857	498	428	351	269	666	1990
MEAN	227	241	248	643	1 090	1 120	1 270	980	694	518	352	221	648	MEAN

LOCATION - LAT 53 50 30 N LONG 101 11 10 W

DRAINAGE AREA, 347 000 km²

REGULATED

SASKATCHEWAN RIVER AT THE PAS - STATION NO. 05KJ001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	1 810 CN JUL 29	156 E CN JAN 01	27 300 000	1913
1914	---	1 690 CN JUL 15	127 E CN MAR 01	22 500 000	1914
1915	---	2 830 CN AUG 09	127 B CN JAN 01	30 800 000	1915
1916	---	2 920 CN JUL 19	115 B CN FEB 16	37 100 000	1916
1917	---	2 570 CN JUL 02	132 B CN DEC 31	30 400 000	1917
1918	---	1 520 CN JUL 10	114 B CN JAN 24	20 500 000	1918
1919	---	1 000 CN APR 23	86.4B CN DEC 30	14 400 000	1919
1920	---	2 310 CN JUN 03	79.0B CN FEB 13	23 600 000	1920
1921	---	1 840 CN MAY 06	68.0B CN FEB 03	23 000 000	1921
1922	---	1 500 CN JUN 30	125 B CN FEB 28	21 700 000	1922
1923	---	2 370 CN JUL 16	109 B CN MAR 29	24 700 000	1923
1924	---	1 440 CN MAY 09	81.8B CN JAN 22	16 600 000	1924
1925	---	1 660 CN JUL 15	105 B CN JAN 31	23 900 000	1925
1926	---	1 460 CN APR 27	151 B CN FEB 07	20 600 000	1926
1927	---	2 190 CN JUL 12	149 B CN FEB 26	33 800 000	1927
1928	---	2 320 CN JUL 18	80.7B CN DEC 31	26 500 000	1928
1929	---	1 570 CN JUN 27	58.3B CN DEC 31	13 400 000	1929
1930	---	1 240 CN JUL 11	50.7B CN FEB 03 *	15 200 000	1930
1931	---	1 210 CN APR 21	---	---	1931
1932	---	---	---	---	1932
1933	---	1 740 CN MAY 03	136 B CN MAR 23	21 200 000	1933
1934	---	1 930B CN APR 30	167 B CN JAN 12	23 000 000	1934
1935	---	1 580 CN APR 28	112 B CN JAN 29	18 800 000	1935
1936	---	2 220 CN MAY 02	66.0B CN DEC 31	15 800 000	1936
1937	---	1 400B CN APR 29	---	---	1937
1938	---	---	---	---	1938
1939	---	1 620 CN APR 25	---	---	1939
1940	---	---	---	---	1940
1941	---	1 350 CN APR 20	62.0B CN DEC 21	9 670 000	1941
1942	---	1 770 CN JUL 28	54.7B CN JAN 11	19 800 000	1942
1943	---	2 250 CN APR 23	94.9B CN DEC 15	20 400 000	1943
1944	---	1 570 CN JUL 06	98.0B CN MAR 20	17 000 000	1944
1945	---	1 480 CN JUL 12	83.5B CN JAN 11	17 900 000	1945
1946	---	1 460 CN JUL 09	104 B CN DEC 18	17 900 000	1946
1947	---	1 740 CN MAY 05	137 B CN MAR 07	22 000 000	1947
1948	---	3 000 CN JUN 11 *	93.4B CN DEC 29	30 200 000	1948
1949	---	1 220 CN APR 20	70.2B CN JAN 29	12 800 000	1949
1950	---	1 770B CN MAY 06	86.4B CN JAN 15	16 800 000	1950
1951	---	1 850 CN JUL 30	144 B CN FEB 28	29 700 000	1951
1952	---	2 100B CN APR 21	133 B CN DEC 02	27 400 000	1952
1953	---	2 310 CN JUL 04	120 B CN JAN 31	24 700 000	1953
1954	---	2 200 CN JUL 02	118 B CN FEB 12	35 100 000	1954
1955	---	1 940 CN JUN 09	94.0B CN NOV 20	26 400 000	1955
1956	---	2 320 CN MAY 17	127 B CN DEC 22	23 700 000	1956
1957	---	1 640B CN MAY 01	92.9B CN FEB 08	17 800 000	1957
1958	---	1 570 CN APR 28	108 B CN DEC 11	19 200 000	1958
1959	---	1 670B CN APR 22	134 B CN FEB 02	18 200 000	1959
1960	---	1 970B CN APR 29	142 B CN DEC 26	17 000 000	1960
1961	---	1 370 CN JUN 22	81.8B CN DEC 08	13 000 000	1961
1962	---	1 590B CN APR 30	62.9 CN NOV 06	13 800 000	1962
1963	1 410 AT 13:00 CST ON JUL 21	1 400 CN JUL 19	74.8B CN JAN 27	15 800 000	1963
1964	---	1 670 CN JUL 03	124 B CN JAN 03	17 200 000	1964
1965	2 430 AT 08:15 CST ON JUL 23 *	2 370 CN JUL 23	196 B CN JAN 22	29 400 000	1965
1966	1 830 AT 23:15 CST ON JUL 20	1 760 CN JUL 20	109 B CN DEC 10	21 200 000	1966
1967	---	1 630B CN MAY 13	102 B CN DEC 15	16 600 000	1967
1968	---	900B CN APR 29	130 B CN NOV 28	13 200 000	1968
1969	1 640 AT 17:30 CST ON JUL 23	1 630 CN JUL 23	210 B CN JAN 01	21 000 000	1969
1970	---	1 730B CN MAY 09	228 B CN NOV 25	19 600 000	1970
1971	---	1 580B CN APR 26	300 CN OCT 10	20 400 000	1971
1972	---	2 010 CN MAY 02	196 B CN DEC 03	23 100 000	1972
1973	---	1 340 CN JUN 20	205 B CN NOV 16	19 900 000	1973
1974	---	2 410 CN MAY 02	391 B CN DEC 19	30 600 000	1974
1975	---	1 330B CN MAY 05	251 B CN NOV 27	21 200 000	1975
1976	---	991B CN APR 16	220 B CN NOV 28	15 100 000	1976
1977	---	923B CN APR 22	164 B CN NOV 24	13 100 000	1977
1978	---	1 540 CN MAY 02	211 B CN JAN 05	17 600 000	1978
1979	2 060 AT 18:00 CST ON MAY 08	2 000 CN MAY 08	198 B CN DEC 13	18 100 000	1979
1980	1 210 AT 00:01 CST ON APR 22	1 140 CN APR 26	161 B CN DEC 04	15 700 000	1980
1981	1 230 AT 23:45 CST ON AUG 12	1 230 CN AUG 12	190 B CN DEC 21	18 800 000	1981
1982	1 510B AT 10:17 CST ON APR 29	1 470B CN APR 29	204 B CN NOV 24	15 800 000	1982
1983	1 570 AT 17:35 CST ON MAY 02	1 550E CN MAY 04	246 B CN DEC 15	16 800 000	1983
1984	1 170B AT 06:12 CST ON APR 17	1 160B CN APR 17	248 B CN NOV 21	14 200 000	1984
1985	---	1 720B CN APR 22	227 B CN NOV 29	17 300 000	1985
1986	---	1 400 CN APR 28	295 B CN JAN 01	20 100 000	1986
1987	---	1 180B CN APR 16	226 B CN DEC 27	14 700 000	1987
1988	---	1 050B CN APR 28	130 B CN DEC 01	9 730 000	1988
1989	---	905B CN APR 28	---	---	1989
1990	---	1 700 CN JUL 13	203 B CN DEC 31	21 000 000	1990
				20 500 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SCISSOR CREEK NEAR MCAULEY - STATION NO. 05ME009

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0.002	0.019	0.004	0.001	---	---	---	---	---	---	0.006	1977
1978	---	---	0.026	0.228	0.008	0.004	---	---	---	---	---	---	0.066	1978
1979	---	---	0	2.03	0.308	0.021	---	---	---	---	---	---	0.583	1979
1980	---	---	0	0.103	0.001	0	---	---	---	---	---	---	0.026	1980
1981	---	0.017	0.037	0.002	0.001	0.002	---	---	---	---	---	---	0.011	1981
1982	---	---	0	0.730	0	0	---	---	---	---	---	---	0.180	1982
1983	---	---	0	1.26	0.001	0	---	---	---	---	---	---	0.311	1983
1984	---	---	0.002	0	0	0	---	---	---	---	---	---	0	1984
1985	---	---	0.813	0.795	0.002	0	---	---	---	---	---	---	0.403	1985
1986	---	---	0.984	0.059	0.022	0.005	---	---	---	---	---	---	0.271	1986
1987	---	---	0.281	0.769	0	0	0	---	---	---	---	---	0.260	1987
1988	---	---	0.001	0.001	0.001	0	---	---	---	---	---	---	0.001	1988
1989	---	---	0	0.011	0	0	---	---	---	---	---	---	0.003	1989
1990	---	---	0.081	0.694	0.001	0.013	---	---	---	---	---	---	0.195	1990
MEAN	---	0.017	0.159	0.479	0.025	0.003	0	---	---	---	---	---	0.165	MEAN

LOCATION - LAT 50 16 16 N DRAINAGE AREA, 187 km²
LONG 101 23 04 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.063 AND 0 M3/S OCCURRED IN FEBRUARY

SCISSOR CREEK NEAR MCAULEY - STATION NO. 05ME009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1977	0.139 AT 18:20 CST ON APR 08	0.076 ON APR 08	0B ON MAR 01 *	67.8	1977
1978	---	0.578B ON APR 03	0B ON MAR 01	692	1978
1979	13.9 AT 18:00 CST ON APR 24 *	12.7 A ON APR 23 *	0B ON MAR 01	6 140	1979
1980	---	0.379B ON APR 08	0B ON MAR 01	270	1980
1981	0.153 AT 17:32 CST ON APR 30	0.063B ON MAR 19	0 ON APR 07	114	1981
1982	5.95 AT 00:06 CST ON APR 14	5.10 ON APR 14	0B ON MAR 01	1 890	1982
1983	10.5 AT 22:11 CST ON APR 20	9.04 ON APR 21	0B ON MAR 01	3 280	1983
1984	0.022 AT 16:54 CST ON MAR 26	0.012 ON MAR 26	0B ON MAR 01	4.41	1984
1985	8.76 B AT 08:51 CST ON MAR 29	6.22 B ON MAR 28	0B ON MAR 01	4 240	1985
1986	---	5.92 B ON MAR 26	0B ON MAR 01	2 860	1986
1987	6.61 AT 01:48 CST ON APR 05	5.40 ON APR 04	0B ON MAR 01	2 750	1987
1988	0.031 AT 15:40 CST ON APR 01	0.011B ON MAR 24	0B ON MAR 01	5.88	1988
1989	---	0.121B ON APR 05	0B ON MAR 01	28.0	1989
1990	8.26 B AT 11:31 CST ON APR 01	6.12 B ON APR 01	0B ON MAR 01	2 050	1990
				1 740	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SCLATER RIVER NEAR CAMPERVILLE - STATION NO. 05LG005

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0.005	6.97	1.58	1.13	0.505	0.297	0.265	2.07	---	---	1.59	1969
1970	---	---	0.037	7.92	8.12	1.69	3.41	2.02	0.071	1.48	---	---	3.09	1970
1971	---	---	0.025	10.3	1.25	2.17	1.48	0.268	0.008	0.540	---	---	2.01	1971
1972	---	---	0.019	9.22	4.44	0.283	0.132	0.031	0.001	0.002	---	---	1.75	1972
1973	---	---	0.019	0.319	0.445	8.96	0.819	0.123	1.05	0.922	---	---	1.56	1973
1974	---	---	0.018	14.4	13.6	2.96	0.033	0.004	0.155	0.195	---	---	3.89	1974
1975	---	---	0	4.09	4.72	2.91	0.128	0.001	0.653	1.15	---	---	1.70	1975
1976	---	---	0	10.7	1.70	13.2	0.642	0.022	0.001	0	---	---	3.23	1976
1977	---	---	0	0.352	0.369	0.029	0.133	0.231	1.81	1.01	---	---	0.488	1977
MEAN	---	---	0.014	7.16	4.02	3.70	0.809	0.333	0.446	0.819	---	---	2.15	MEAN

LOCATION - LAT 51 59 50 N DRAINAGE AREA, 393 km²
LONG 100 13 50 W NATURAL FLOW

SCLATER RIVER NEAR CAMPERVILLE - STATION NO. 05LG005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1969	---	35.7 ON APR 14	0 ON SEP 05 *	33 600	1969
1970	---	22.3 ON APR 26	0.028 ON SEP 14	65 500	1970
1971	---	34.8 ON APR 13	0 ON SEP 03	42 500	1971
1972	---	37.7 ON APR 21	0 B ON MAR 01	37 000	1972
1973	45.4 AT 08:00 CST ON JUN 22	44.2 ON JUN 22	0 B ON MAR 01	33 000	1973
1974	98.0 AT 04:30 CST ON APR 21 *	85.0 ON APR 21 *	0.001 ON AUG 07	82 400	1974
1975	16.6 AT 11:14 CST ON APR 28	14.6 ON APR 28	0 B ON MAR 01	35 900	1975
1976	72.0 AT 21:00 CST ON JUN 15	65.7 ON JUN 16	0 B ON MAR 01	68 400	1976
1977	6.71 AT 11:17 CST ON SEP 28	6.40 ON SEP 28	0 B ON MAR 01	10 300	1977
				45 400	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SCOTT CREEK NEAR LAURIER - STATION NO. 05LJ026

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.013	0.668	1.07	0.202	0.115	0.059	0.050	0.557	---	---	0.488	1959
1960	---	---	0	1.46	1.73	0.330	0.127	0.138	0.075	0.111	---	---	0.881	1960
1961	---	---	0.058	0.255	0.409	0.105	0.064	0.001	0.062	0.116	---	---	0.207	1961
1962	---	---	0.001	0.293	0.487	0.168	0.044	0.050	0.041	0.048	0.105	---	0.237	1962
1963	---	---	0.028	1.49	0.694	0.918	0.124	0.071	0.169	0.106	---	---	0.775	1963
1964	---	---	0	0.694	0.598	0.105	0.079	0.055	0.064	0.068	---	---	0.348	1964
1965	---	---	0.012	1.03	1.29	0.576	0.212	0.113	0.978	0.236	---	---	0.725	1965
1966	---	---	0.283	0.932	1.38	0.349	0.144	0.239	0.099	0.146	---	---	0.738	1966
1967	---	---	0.029	0.312	1.99	0.270	0.108	0.085	0.051	0.144	---	---	0.655	1967
1968	---	---	0.025	0.405	0.541	0.274	0.347	0.326	0.248	0.191	---	---	0.311	1968
1969	---	---	0.057	1.08	0.486	1.31	0.796	0.121	0.194	0.211	---	---	0.727	1969
1970	---	---	0.184	1.31	3.15	0.687	0.326	0.114	0.179	0.208	---	---	1.34	1970
1971	---	---	0	0.857	0.471	2.16	0.408	0.160	0.143	0.468	---	---	0.862	1971
1972	---	---	0.058	1.09	1.14	0.257	0.117	0.091	0.085	0.067	---	---	0.636	1972
1973	---	---	0.049	0.212	0.321	0.612	0.110	0.167	0.348	0.371	---	---	0.297	1973
1974	---	---	0	1.45	2.17	0.687	0.212	0.127	0.144	0.136	---	---	1.08	1974
1975	---	---	0	0.743	1.24	1.00	0.201	0.878	2.74	0.909	---	---	0.744	1975
1976	---	---	0.011	2.90	0.542	0.477	0.178	0.091	0.079	0.079	---	---	0.972	1976
1977	---	---	0.010	0.276	0.435	0.256	---	---	---	---	---	---	0.244	1977
1978	---	---	0.026	1.04	0.499	0.290	---	---	---	---	---	---	0.460	1978
MEAN	---	---	0.042	0.925	1.03	0.552	0.206	0.160	0.319	0.233	0.105	---	0.636	MEAN

LOCATION - LAT 50 50 50 N DRAINAGE AREA, 69.4 km²
LONG 099 32 45 W NATURAL FLOW

REMARKS - 58.9 M3/S OCCURRED SEP 19 1975. AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

SCOTT CREEK NEAR LAURIER - STATION NO. 05LJ026

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	7.36 AT 00:30 CST ON MAY 03	4.25 ON MAY 08	0 B ON MAR 01 *	5 150	1959
1960	7.48 AT 17:00 CST ON MAY 26	4.64 ON APR 20	0 B ON MAR 01	9 290	1960
1961	---	1.48 ON MAY 07	0.006B ON MAR 27	2 180	1961
1962	---	4.47A ON MAY 30	0 B ON MAR 01	2 500	1962
1963	10.4 B AT 05:15 CST ON APR 16	5.52 ON JUN 10	0 B ON MAR 01	8 170	1963
1964	10.4 B AT 22:35 CST ON APR 24	3.11B ON APR 24	0 B ON MAR 01	3 670	1964
1965	---	12.0 B ON APR 29	0.006B ON MAR 01	7 650	1965
1966	10.5 AT 21:00 CST ON MAY 04	4.70 ON MAY 05	0.014B ON MAR 01	7 780	1966
1967	5.07 AT 00:30 CST ON MAY 15	3.57 ON MAY 15	0.028B ON MAR 01	6 900	1967
1968	3.31 AT 15:30 CST ON JUL 01	1.27 ON MAY 09	0 B ON MAR 01	3 270	1968
1969	22.2 AT 03:52 CST ON JUN 27	11.0 ON JUN 27	0.057B ON MAR 01	7 660	1969
1970	---	11.3 ON MAY 07	0.184B ON MAR 01	14 100	1970
1971	26.3 AT 14:18 CST ON JUN 06 *	21.5 ON JUN 06 *	0 B ON MAR 01	9 080	1971
1972	8.67B AT 00:00 CST ON APR 26	5.58B ON APR 25	0 B ON MAR 01	6 710	1972
1973	6.26 AT 16:05 CST ON JUN 20	3.96 ON JUN 20	0.028B ON MAR 01	3 130	1973
1974	12.0 AT 23:55 CST ON MAY 11	6.57 ON APR 27	0 B ON MAR 01	11 300	1974
1975	11.6 AT 06:47 CST ON MAY 08	7.99 ON JUN 10	0 B ON MAR 01	7 850	1975
1976	11.3 AT 17:20 CST ON APR 19	7.14 ON APR 09	0 B ON MAR 01	10 200	1976
1977	---	1.42 ON MAY 20	0 B ON MAR 01	2 570	1977
1978	---	3.34B ON APR 24	0.020B ON MAR 01	4 850	1978
				6 700	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEAL RIVER BELOW GREAT ISLAND - STATION NO. 06GD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1955	142	113	79.3	85.0	425	793	708	510	340	232	176	142	313	1955
1956	113	102	96.3	142	481	793	552	331	218	147	113	85.0	265	1956
1957	65.1	62.3	59.5	142	467	793	807	728	595	425	275	184	385	1957
1958	142	127	113	108	204	498	473	425	419	368	289	204	282	1958
1959	150	123	96.3	99.1	580	920	793	487	411	326	255	198	371	1959
1960	170	113	85.0	198	934	1 610	1 270	714	382	297	241	190	518	1960
1961	156	122	87.8	113	416	481	614	487	382	303	238	184	300	1961
1962	142	122	102	130	651	1 300	779	402	283	227	170	142	372	1962
1963	113	99.1	87.8	93.4	269	711	748	569	379	246	176	130	303	1963
1964	110	99.1	93.4	85.0	99.1	453	750	736	609	425	241	181	324	1964
1965	150	113	79.3	76.5	227	462	416	348	263	203	177	153	223	1965
1966	137	120	98.5	91.1	125	1 120	921	557	331	246	182	139	339	1966
1967	125	108	93.3	103	154	1 200	1 080	773	384	266	198	153	388	1967
1968	122	106	93.7	90.6	153	957	816	674	532	464	348	261	385	1968
1969	193	152	122	122	198	419	378	392	847	754	443	345	364	1969
1970	246	187	144	142	368	580	418	284	257	276	283	219	284	1970
1971	180	149	120	113	283	490	713	726	802	798	577	391	447	1971
1972	236	173	124	114	721	667	789	776	750	584	364	268	465	1972
1973	200	162	127	109	563	423	332	233	210	181	148	118	234	1973
1974	94.8	76.1	66.7	64.4	365	414	351	479	520	373	261	200	273	1974
1975	154	102	78.2	90.9	459	574	712	585	420	306	225	171	325	1975
1976	139	120	108	112	391	620	568	337	339	454	394	308	325	1976
1977	235	177	127	220	808	791	724	756	580	432	320	227	452	1977
1978	158	116	88.5	79.6	310	805	729	759	992	804	524	325	476	1978
1979	207	150	112	96.5	277	772	526	355	267	221	181	148	277	1979
1980	122	96.6	75.3	109	---	---	438	535	1 090	828	526	318	---	1980
1981	195	139	111	104	553	664	536	385	329	282	207	153	306	1981
1982	115	96.3	81.9	75.1	410	633	615	364	335	306	221	177	294	1982
1983	150	129	110	94.8	146	1 400	1 280	805	921	966	647	452	585	1983
1984	253	186	143	298	1 080	749	505	361	330	298	214	180	384	1984
1985	156	127	100	79.1	228	834	525	344	288	260	202	173	277	1985
1986	153	123	97.2	82.7	218	---	1 060	693	436	325	227	165	---	1986
1987	131	107	93.1	87.7	305	775	794	435	346	291	258	209	320	1987
1988	177	145	116	91.2	154	---	---	526	304	220	163	136	---	1988
1989	126	111	92.0	78.5	---	---	933	560	394	364	267	178	---	1989
1990	145	120	101	91.4	264	713	674	449	374	357	262	213	315	1990
MEAN	156	124	100	111	391	763	695	524	463	387	278	203	349	MEAN

LOCATION - LAT 58 53 30 N LONG 096 16 31 W DRAINAGE AREA, 48 100 km² NATURAL FLOW

SEAL RIVER BELOW GREAT ISLAND - STATION NO. 06GD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1955	---	793E ON JUN 01	79.3E ON MAR 01	9 880 000	1955
1956	---	793E ON JUN 01	85.0E ON DEC 01	8 370 000	1956
1957	---	807E ON JUL 01	59.5E ON MAR 01 *	12 200 000	1957
1958	---	498E ON JUN 01	108 E ON APR 01	8 880 000	1958
1959	---	920E ON JUN 01	96.3E ON MAR 01	11 700 000	1959
1960	---	1 610E ON JUN 01	85.0E ON MAR 01	16 400 000	1960
1961	---	614E ON JUL 01	87.8E ON MAR 01	9 460 000	1961
1962	---	1 300E ON JUN 01	102 E ON MAR 01	11 700 000	1962
1963	---	748E ON JUL 01	87.8E ON MAR 01	9 560 000	1963
1964	---	750E ON JUL 01	85.0E ON APR 01	10 300 000	1964
1965	---	462E ON JUN 01	76.5E ON APR 01	7 030 000	1965
1966	---	1 310B ON JUN 10	87.8B ON MAR 31	10 700 000	1966
1967	---	1 350E ON JUN 07	86.7B ON MAR 21	12 200 000	1967
1968	---	957E ON JUN 01	90.6E ON APR 01	12 200 000	1968
1969	---	934 ON SEP 21	122 E ON MAR 01	11 500 000	1969
1970	---	600E ON JUN 01	142 E ON APR 01	8 950 000	1970
1971	898 AT 22:51 CST ON SEP 30	892 ON SEP 30	109 B ON MAR 31	14 100 000	1971
1972	---	1 040 ON MAY 27	109 B ON APR 11	14 700 000	1972
1973	1 000 AT 23:00 CST ON MAY 23	917 ON MAY 24	103 B ON APR 11	7 390 000	1973
1974	---	736B ON MAY 25	63.4B ON APR 07	8 620 000	1974
1975	779 AT 16:00 CST ON JUL 08	765 ON JUL 08	74.5B ON MAR 29	10 200 000	1975
1976	714 AT 18:00 CST ON JUN 20	711 ON JUN 20	106 B ON MAR 21	10 300 000	1976
1977	---	917B ON MAY 13	115 B ON MAR 29	14 300 000	1977
1978	---	1 040 ON SEP 07	79.3B ON APR 07	15 000 000	1978
1979	---	960B ON JUN 02	94.9B ON APR 10	8 720 000	1979
1980	---	1 160 ON SEP 10	64.3B ON APR 09	---	1980
1981	---	1 010B ON MAY 25	104 B ON APR 01	9 650 000	1981
1982	---	759 ON JUN 26	74.1B ON APR 27	9 260 000	1982
1983	1 650 AT 13:15 CST ON JUN 28 *	1 640 ON JUN 28 *	90.2B ON APR 26	18 400 000	1983
1984	---	1 480B ON MAY 23	127 B ON APR 04	12 100 000	1984
1985	---	922A ON JUN 13	71.7B ON MAY 06	8 730 000	1985
1986	---	---	77.1B ON MAY 08	---	1986
1987	966 AT 15:05 CST ON JUN 26	961 ON JUN 26	84.8B ON APR 15	10 100 000	1987
1988	---	---	---	---	1988
1989	---	---	---	---	1989
1990	771 AT 12:44 CST ON JUL 13	768 ON JUL 03	86.5B ON APR 20	9 930 000	1990
				11 000 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEINE RIVER AT RAILWAY BRIDGE, NEAR STE. ANNE DES CHENES - STATION NO. 05OH001

MONTHLY AND ANNUAL MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	5.61	2.64	1.74	0.013	0.048	1.84	1.13	0.283	---	1915
1916	---	---	---	9.69	5.19	2.19	1.57	0.842	0.278	0.869	---	---	2.93	1916
1917	---	---	---	4.16	3.10	0.808	0.416	0.058	0.041	0.142	---	---	1.24	1917
1918	---	---	---	1.05	0.729	2.53	0.582	0.471	0.206	0.648	0.485	---	0.883	1918
1919	---	---	---	3.55	1.98	0.778	12.3	0.448	2.31	---	---	---	---	1919
1920	---	---	---	---	4.57	6.07	0.121	0	---	---	---	---	---	1920
1921	---	---	---	4.13	3.93	2.18	---	---	---	---	---	---	---	1921
1922	---	---	---	4.70	8.96	0.412	---	---	---	---	---	---	---	1922
1923	---	---	---	---	3.41	1.34	0.981	0.979	---	---	---	---	---	1923
1924	---	---	---	---	5.94	1.74	0.715	1.17	0.202	1.58	---	---	---	1924
1925	---	---	---	10.2	4.16	19.2	3.06	0.407	0.909	5.34	---	---	6.13	1925
1926	---	---	---	3.12	1.47	5.49	2.70	0.530	0.549	5.41	---	---	2.75	1926
1927	---	---	---	14.8	20.7	3.03	0.976	0.307	0.564	---	---	---	---	1927
MEAN	---	---	---	6.16	5.37	3.72	2.28	0.475	0.567	2.26	0.808	0.283	2.79	MEAN

LOCATION - LAT 49 40 00 N, LONG 096 39 00 W DRAINAGE AREA, 723 km² NATURAL FLOW

SEINE RIVER AT RAILWAY BRIDGE, NEAR STE. ANNE DES CHENES - STATION NO. 05OH001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1915	---	---	---	---	1915
1916	---	22.4 ON APR 22	0 ON AUG 04 *	---	1916
1917	---	13.5 ON APR 19	0 ON AUG 26	54 200	1917
1918	---	6.44 ON JUN 06	0 ON JUL 31	42 900	1918
1919	---	56.1 ON JUL 05 *	0.113 ON AUG 07	16 300	1919
1920	---	---	0 ON SEP 02	---	1920
1921	---	---	---	---	1921
1922	---	---	0 ON JUL 12	---	1922
1923	---	---	---	---	1923
1924	---	---	0 ON JUN 13	---	1924
1925	---	---	---	---	1925
1926	---	44.5 ON JUN 10	0.113 ON AUG 05	113 000	1926
1927	---	17.5 ON JUN 25	0.396 ON AUG 15	50 800	1927
		56.1 ON MAY 11	---	---	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEINE RIVER AT STE. ANNE DES CHENES - STATION NO. 05OH003

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1926	---	---	---	---	---	---	---	---	---	5.41	---	---	---	1926
1927	---	---	---	---	20.7	3.03	0.976	0.307	0.564	1.59	---	---	4.55	1927
1928	---	---	---	---	1.83	7.18	7.05	1.26	0.869	0.870	---	---	3.17	1928
1929	---	---	---	---	1.38	2.79	0.535	0.112	0.206	0.574	---	---	0.928	1929
1930	---	---	---	---	6.56	0.994	0.744	0.196	0.224	0.583	---	---	1.56	1930
1931	---	---	---	3.79	2.66	0.672	0.206	0.095	0.231	0.419	0.597	---	0.717	1931
1932	---	---	---	---	1.92	0.309	0.331	0.079	0.155	0.634	---	---	0.576	1932
1933	---	---	---	---	2.83	1.90	0.172	0.067	0.143	0.213	---	---	0.886	1933
1934	---	---	---	---	0.820	0.554	0.251	0.070	0.139	0.357	---	---	0.365	1934
1935	---	---	---	---	1.73	1.14	0.609	0.204	0.227	0.314	---	---	0.703	1935
1936	---	---	---	---	1.38	0.372	0.054	0.015	0.150	---	---	---	---	1936
MEAN	---	---	---	3.79	4.18	1.89	1.09	0.241	0.291	1.10	0.597	---	1.50	MEAN

LOCATION - LAT 49 40 35 N, LONG 096 41 00 W DRAINAGE AREA, 727 km² NATURAL FLOW

SEINE RIVER AT STE. ANNE DES CHENES - STATION NO. 05OH003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1926	---	---	---	---	1926
1927	---	56.1 ON MAY 11 *	0.215 ON AUG 15	72 400	1927
1928	---	16.7 ON JUN 23	0.736 ON AUG 20	50 400	1928
1929	---	7.25 ON MAY 31	0.028 ON AUG 10	14 700	1929
1930	---	17.3 ON MAY 15	0.069 ON AUG 18	24 800	1930
1931	---	5.38 ON MAY 13	0.054 ON AUG 19	11 400	1931
1932	---	2.97 ON MAY 04	0.014 ON AUG 20	9 150	1932
1933	---	10.8 ON MAY 29	0.006 ON SEP 06	14 100	1933
1934	---	1.17 ON MAY 01	0.003 ON AUG 04 *	5 810	1934
1935	---	2.94 ON MAY 14	0.076 ON AUG 15	11 200	1935
1936	---	---	---	---	1936
				23 800	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEINE RIVER DIVERSION NEAR ILE DES CHENES - STATION NO. 05OE011

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	1.37	50.4	6.97	0.044	0.028	0.008	0.011	0.042	---	---	7.25	1967
1968	---	---	0.219	2.90	4.12	1.52	1.01	2.33	1.31	0.219	---	---	1.70	1968
1969	---	---	0	21.4	5.13	0.881	0.557	0.190	0.036	0.090	---	---	3.49	1969
1970	---	---	0	23.6	18.6	7.00	0.371	0.036	0.230	0.090	---	---	6.20	1970
1971	---	---	0	14.6	2.67	0.492	0.160	0.046	0.116	0.733	---	---	2.32	1971
1972	---	---	1.69	13.2	1.88	0.077	0.031	0.079	0.037	0.185	---	---	2.12	1972
1980	---	---	0.004	6.12	0.085	0.046	0.029	0.014	0.264	0.427	---	---	0.858	1980
1981	---	---	0.572	0.321	0.251	0.393	0.561	0.408	0.274	0.464	---	---	0.406	1981
1982	---	---	0.693	10.0	0.441	3.69	3.01	0.553	0.185	0.623	---	---	2.38	1982
1983	---	---	7.53	15.2	2.36	1.28	1.37	0.051	0.071	0.128	---	---	3.47	1983
1984	---	---	0.996	0.992	0.286	6.03	0.383	0.064	0.074	0.243	---	---	1.12	1984
1985	---	---	5.14	1.80	1.70	0.123	0.243	1.23	0.093	0.335	---	---	1.34	1985
1986	---	---	8.72	13.4	18.0	0.365	0.421	0.141	0.121	0.469	---	---	5.21	1986
1987	---	---	0.312	12.9	0.213	0.129	0.087	0.089	0.030	0.189	---	---	1.72	1987
1988	---	---	0.245	2.04	0.036	0.014	0.047	0.004	0.010	0.094	---	---	0.307	1988
1989	---	---	0	4.96	0.335	0.207	0.211	0.048	0.020	0.114	---	---	0.724	1989
1990	---	---	1.44	2.44	1.01	8.30	0.366	0.021	0.039	0.067	---	---	1.69	1990
MEAN	---	---	1.70	11.5	3.77	1.80	0.523	0.312	0.172	0.265	---	---	2.49	MEAN

LOCATION - LAT 49 41 40 N DRAINAGE AREA, 1 410 km²
LONG 096 59 19 W REGULATED

SEINE RIVER DIVERSION NEAR ILE DES CHENES - STATION NO. 05OE011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	132 ON APR 21 *	0 B ON MAR 01 *	153 000	1967
1968	---	16.1 ON MAY 15	0 B ON MAR 01	36 000	1968
1969	---	76.5 ON APR 10	0 B ON MAR 01	73 800	1969
1970	---	72.8 ON APR 16	0 B ON MAR 01	131 000	1970
1971	---	55.2 B ON APR 09	0 B ON MAR 01	49 100	1971
1972	---	32.0 B ON APR 17	0 B ON MAR 01	44 800	1972
1980	43.5 B AT 12:00 CST ON APR 07	42.8 B ON APR 07	0 B ON MAR 01	18 200	1980
1981	7.53 AT 16:31 CST ON JUN 29	5.61 ON JUN 30	0.008 ON JUL 26	8 600	1981
1982	33.8 AT 22:31 CST ON APR 13	29.8 B ON APR 13	0 B ON MAR 01	50 300	1982
1983	---	38.7 B ON APR 04	0 B ON MAR 01	73 500	1983
1984	20.5 AT 11:54 CST ON JUN 13	19.3 ON JUN 13	0 B ON MAR 01	23 700	1984
1985	36.6 AT 23:11 CST ON MAR 24	29.5 B ON MAR 24	0 B ON MAR 01	28 400	1985
1986	72.4 AT 11:13 CST ON MAY 01 *	66.1 ON MAY 01	0.008 ON SEP 01	110 000	1986
1987	---	---	0 B ON MAR 01	36 300	1987
1988	---	13.0 B ON APR 03	0 B ON MAR 01	6 500	1988
1989	28.1 AT 14:09 CST ON APR 16	23.6 B ON APR 16	0 B ON MAR 01	15 300	1989
1990	17.8 AT 07:53 CST ON APR 05	16.4 ON JUN 13	0 B ON MAR 01	35 700	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		52 600	MEAN

SEINE RIVER DIVERSION NEAR ST. ADOLPHE - STATION NO. 05OE013

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	3.99	0.943	0.397	0.904	0.189	0.252	1.27	2.13	---	---	1.26	1973
1974	---	---	---	56.3	48.5	4.17	---	---	---	---	---	---	---	1974
1975	---	---	0	3.34	1.51	2.02	4.28	0.027	0.024	0.068	---	---	1.40	1975
1976	---	---	0.001	8.04	0.932	3.76	0.248	0.022	0.035	0.001	---	---	1.60	1976
1977	---	---	0.105	1.08	0.189	0.099	0.179	0.039	0.672	0.244	---	---	0.323	1977
1978	---	---	0.228	26.2	1.71	0.057	0.358	0.004	0.007	0.007	---	---	1.75	1978
1979	---	---	0	22.2	1.82	2.93	0.032	0.020	0.047	0.054	---	---	3.32	1979
MEAN	---	---	0.721	17.1	7.87	1.99	0.881	0.061	0.343	0.417	---	---	1.94	MEAN

LOCATION - LAT 49 41 50 N
LONG 097 05 30 W REGULATED

SEINE RIVER DIVERSION NEAR ST. ADOLPHE - STATION NO. 05OE013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	18.3 B ON MAR 14	0B ON MAR 01 *	26 700	1973
1974	---	176 E ON APR 22 *	0B ON APR 01	---	1974
1975	40.2 AT 06:45 CST ON JUL 01	37.7 ON JUL 01	0B ON MAR 01	29 700	1975
1976	---	37.1 ON JUN 13	0B ON MAR 01	33 900	1976
1977	5.78 AT 09:30 CST ON APR 10	4.19 ON APR 10	0B ON MAR 01	6 830	1977
1978	92.3 B AT 23:30 CST ON APR 10 *	84.4 B ON APR 10	0B ON MAR 01	79 500	1978
1979	---	118 R ON APR 20	0B ON MAR 01	70 300	1979
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1989		41 200	MEAN

SEINE RIVER DIVERSION NEAR STE. ANNE - STATION NO. 05OH008

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	1.27	0.864	0.458	0.496	0.072	0.099	0.216	1.15	---	---	0.579	1973
1974	---	---	0	20.6	16.4	3.08	0.003	0.003	0.003	0.003	---	---	4.97	1974
1975	---	---	0	1.03	2.23	1.45	2.23	0	0	0	---	---	0.867	1975
1976	---	---	0	2.99	0.696	0.505	0.115	0	0	0	---	---	0.530	1976
1977	---	---	0.005	0.097	0.001	0	0	0	0	0	---	---	0.013	1977
1978	---	---	0.004	8.89	1.61	0.069	0.017	0.001	0.002	0	---	---	1.30	1978
1979	---	---	0	7.70	7.29	2.50	0	0	0	0	---	---	2.17	1979
1980	---	---	0	1.81	0	0	0	0	0	0	---	---	0.221	1980
1981	---	---	0.004	0.002	0	0	0	0	0	0	---	---	0.001	1981
1982	---	---	0.095	4.80	0.116	2.25	1.71	0.166	0	0.168	---	---	1.05	1982
1983	---	---	0.679	8.06	1.85	6.875	1.05	0	0	0	---	---	1.15	1983
1984	---	---	0.203	0.260	0.023	5.32	0.150	0	0	0	---	---	1.55	1984
													0.731	
1985	---	---	0.995	0.706	1.34	0.111	0.067	0.018	0.001	0.191	---	---	0.431	1985
1986	---	---	1.63	8.79	10.3	0.217	0.163	0	0	0.216	---	---	2.66	1986
1987	---	---	0.158	5.56	0.027	0	0	0	0	0	---	---	0.704	1987
1988	---	---	0.001	0.268	0	0	0	0	0	0	---	---	0.033	1988
1989	---	---	0	0.997	0.151	0.072	0.009	0	0	0	---	---	0.151	1989
1990	---	---	0.577	0.684	0.825	5.81	0.068	0	0	0	---	---	0.981	1990
MEAN	---	---	0.312	4.12	2.41	1.26	0.314	0.016	0.012	0.096	---	---	1.06	MEAN

LOCATION - LAT 49 39 10 N LONG 096 39 10 W DRAINAGE AREA, 690 km² REGULATED

SEINE RIVER DIVERSION NEAR STE. ANNE - STATION NO. 05OH008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1973	---	3.68 ON OCT 15			
1974	---	61.7 A ON APR 22 *	OB ON MAR 01 *	12 300	1973
			OB ON MAR 01	105 000	1974
1975	17.8 AT 03:05 CST ON JUL 02	17.3 ON JUL 02	OB ON MAR 01		
1976	4.67 AT 12:52 CST ON APR 23	4.56 ON APR 22	OB ON MAR 01	18 300	1975
1977	0.425 AT 21:00 CST ON APR 12	0.252 ON APR 12	OB ON MAR 01	11 200	1976
1978	---	22.1 B ON APR 10	OB ON MAR 01	267	1977
1979	---	34.0 ON APR 19	OB ON MAR 01	27 600	1978
				46 000	1979
1980	9.99 B AT 16:00 CST ON APR 07	8.64 B ON APR 07	OB ON MAR 01		
1981	0.030 AT 06:38 CST ON MAR 26	0.025 ON MAR 26	0 ON MAR 01	4 680	1980
1982	19.2 AT 23:38 CST ON APR 16	16.7 B ON APR 16	OB ON MAR 01	16.8	1981
1983	---	26.1 B ON APR 02	OB ON MAR 01	24 300	1982
1984	16.9 AT 15:59 CST ON JUN 12	16.9 ON JUN 13	OB ON MAR 01	32 800	1983
				15 500	1984
1985	5.05 B AT 20:54 CST ON MAR 24	4.57 B ON MAR 25	OB ON MAR 01		
1986	28.6 AT 18:14 CST ON MAY 03 *	27.6 ON MAY 03	OB ON MAR 01	9 120	1985
1987	---	12.0 E ON APR 09	OB ON MAR 01	56 200	1986
1988	---	2.44 B ON APR 05	OB ON MAR 01	14 900	1987
1989	6.89 AT 21:00 CST ON APR 21	4.67 ON APR 22	OB ON MAR 01	697	1988
				3 200	1989
1990	11.2 AT 18:02 CST ON JUN 04	10.6 ON JUN 13	OB ON MAR 01	20 800	1990
				22 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEINE RIVER NEAR PRAIRIE GROVE - STATION NO. 05OH006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1942	---	---	---	---	6.73	1.02	0.229	0.205	0.807	0.383	---	---	---	1942
1943	---	---	---	9.12	1.38	7.18	2.25	0.281	0.255	0.235	---	---	---	1943
1944	---	---	---	2.12	0.910	13.0	2.27	10.7	20.4	1.97	6.69	---	---	1944
1945	---	---	---	15.5	5.98	1.43	2.32	0.400	4.77	2.27	---	---	---	1945
1946	---	---	11.3	7.65	2.01	0.621	0.782	0.101	0.484	1.49	---	---	---	1946
1947	---	---	0	11.6	5.60	4.96	1.60	3.63	0.950	2.54	---	---	---	1947
1948	---	---	0.132	14.0	7.09	0.827	1.71	3.97	0.417	0.238	0.491	0.272	---	1948
1949	0.112	0.064	0.129	8.33	3.95	1.18	0.258	0.290	0.125	1.31	1.89	0.405	1.50	1949
1950	0.253	0.197	0.139	14.2	33.8	4.82	4.29	0.585	3.01	5.08	1.63	0.477	5.75	1950
1951	0.306	0.119	0.427	10.2	6.49	1.19	0.229	0.212	0.425	0.588	0.356	0.206	1.73	1951
1952	0.057	0.060	0.092	1.82	0.628	0.554	0.560	0.138	0.063	0.205	0.187	0.146	0.375	1952
1953	0.066	0.051	0.377	1.94	1.32	3.88	1.26	0.171	0.537	0.322	0.380	0.185	0.872	1953
1954	0.049	0.096	0.119	3.42	5.61	11.6	1.62	0.301	0.754	1.39	0.948	0.498	2.19	1954
1955	0.212	0.119	0.109	20.8	3.99	4.32	0.671	0.089	0.057	0.274	0.161	0.107	2.55	1955
1956	0.033	0.019	0.100	8.86	4.32	1.46	1.74	0.967	3.95	0.774	4.67	0.484	2.27	1956
1957	0.195	0.063	4.11	10.7	4.68	5.02	2.65	0.201	0.190	0.375	0.393	0.131	2.39	1957
1958	0.076	0.041	0.257	0.809	0.682	0.663	2.15	0.157	0.058	0.362	0.440	0.166	0.492	1958
1959	0.103	0.024	0.062	11.6	7.46	19.6	1.35	2.61	4.00	16.0	2.30	0.425	5.47	1959
1960	0.217	0.194	0.085	26.0	4.14	2.03	0.380	0.169	0.119	0.224	0.535	0.220	2.83	1960
1961	0.233	0.032	0.906	3.52	2.42	0.472	0.135	0.012	0.009	0.274	0.217	0.066	0.693	1961
1962	0.055	0.020	0.106	2.64	3.35	0.947	0.976	0.880	0.481	0.359	0.845	0.452	0.929	1962
1963	0.083	0	0.990	4.31	4.00	5.45	2.09	0.758	0.085	0.145	0.146	0.063	1.51	1963
1964	0.107	0.111	0.053	3.44	3.52	2.65	0.751	0.198	0.318	1.79	0.621	0.190	1.14	1964
1965	0.098	0.047	0.098	4.62	3.56	3.58	2.54	0.254	0.736	1.59	0.947	0.537	1.55	1965
1966	0.395	0.264	0.211	10.2	3.45	4.43	5.45	0.439	1.26	0.832	1.09	0.292	2.36	1966
1967	0.179	0.068	0.070	12.6	2.95	0.833	0.340	0.112	0.012	0.255	0.399	0.109	1.48	1967
1968	0.053	0.046	0.100	1.80	1.03	1.07	1.39	2.51	1.64	1.13	0.909	0.239	0.995	1968
1969	0.133	0.207	0.238	8.06	0.929	0.806	1.22	0.551	0.235	0.501	0.410	0.243	1.12	1969
1970	0.166	0.069	0.093	7.76	3.13	2.39	0.689	0.157	0.286	0.400	0.988	0.164	1.35	1970
1971	0.028	0.066	0.252	8.44	0.815	0.769	0.373	0.227	0.120	0.596	0.721	0.354	1.06	1971
1972	0.106	0.054	0.333	4.58	1.11	0.507	0.112	0.210	0.214	0.497	0.528	0.072	0.688	1972
1973	0.052	0.046	1.34	1.20	1.08	1.48	1.04	0.751	1.04	3.07	1.34	0.348	1.07	1973
1974	0.100	0.127	0.193	16.2	9.89	1.90	0.359	0.208	0.178	0.259	0.159	0.105	2.47	1974
1975	0.110	0.142	0.177	1.37	1.50	2.87	1.50	0.125	0.112	0.210	0.173	0.107	0.699	1975
1976	0.088	0.076	0.104	2.59	0.542	2.02	0.396	0.030	0.009	0.063	0.069	0.004	0.494	1976
1977	0	0	0.056	1.33	0.441	0.667	0.483	0.111	1.55	1.18	0.743	0.527	0.590	1977
1978	0.212	0.160	0.181	11.7	2.97	0.716	0.379	0.074	0.104	0.154	0.138	0.056	1.39	1978
1979	0.027	0.019	0.025	10.3	1.98	2.44	0.163	0.115	0.228	0.134	0.180	0.093	1.29	1979
1980	0.068	0.078	0.089	2.76	0.592	0.126	0.038	0.048	0.174	0.574	0.268	0.073	0.404	1980
1981	0.018	0.114	0.537	0.787	0.650	0.616	0.332	0.227	0.293	1.76	0.767	0.467	0.550	1981
1982	0.090	0.035	0.126	2.22	2.30	1.82	1.20	0.972	0.123	1.62	1.04	0.535	1.01	1982
1983	0.088	0.133	0.814	5.34	0.578	0.518	0.506	0.224	0.129	0.226	0.212	0.085	0.734	1983
1984	0.026	0.016	0.161	1.11	0.852	1.27	0.389	0.064	0.005	0.268	0.271	0.158	0.382	1984
1985	0.069	0.027	1.34	1.82	0.555	0.896	0.495	1.12	0.570	1.19	0.607	0.189	0.744	1985
1986	0.116	0.222	1.96	4.08	---	---	---	---	---	---	---	---	---	1986
MEAN	0.114	0.085	0.683	7.12	3.70	2.88	1.17	0.808	1.17	1.25	0.894	0.243	1.49	MEAN

LOCATION - LAT 49 46 15 N DRAINAGE AREA, 1 100 km²
LONG 096 56 10 W REGULATED SINCE 1961

SEINE RIVER NEAR PRAIRIE GROVE - STATION NO. 05CH006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1942	---	---	---	---	1942
1943	---	---	---	---	1943
1944	---	33.7 ON APR 09 49.6 ON SEP 07	---	---	1944
1945	---	---	0 B ON APR 01 *	---	1945
1946	---	50.4 ON MAR 28	---	---	1946
1947	---	39.1 ON MAR 25	0 B ON MAR 01	---	1947
1948	---	28.1 ON APR 17	---	---	1948
1949	---	39.1 ON APR 21	---	---	1949
1950	---	32.0 ON APR 12	0 B ON JAN 27	47 300	1950
1951	---	80.4 ON MAY 07	0.102B ON MAR 07	101 000	1951
1952	---	23.9 B ON APR 06	0 B ON DEC 30	54 900	1952
1953	---	4.08B ON APR 08	0.028B ON JAN 01	34 400	1953
1954	---	6.48 ON JUN 29	0.028B ON FEB 12	27 800	1954
1955	---	25.2 ON JUN 18	0.028B ON JAN 01	27 500	1955
1956	---	73.3 ON APR 08	0 ON SEP 16	69 200	1956
1957	---	36.5 B ON APR 22	0 B ON JAN 19	80 500	1957
1958	---	33.1 ON APR 26	0.028B ON JAN 31	71 700	1958
1959	82.7 AT 08:00 CST ON JUN 15 *	9.34 ON JUL 06 77.6 ON JUN 15	0 ON SEP 22 0.006B ON FEB 19	75 400 15 500 173 000	1959
1960	---	84.1 ON APR 15 *	0.023 ON SEP 22	89 500	1960
1961	---	6.03B ON MAR 28	0 B ON FEB 01	21 800	1961
1962	---	17.7 B ON APR 22	0 B ON JAN 17	29 300	1962
1963	---	12.2 B ON APR 09	0 B ON JAN 11	47 700	1963
1964	---	13.6 B ON APR 19	0.011B ON MAR 24	36 200	1964
1965	---	26.0 B ON APR 14	0.020B ON MAR 14	49 000	1965
1966	---	23.4 A ON JUL 04	0.105B ON DEC 30	74 400	1966
1967	38.2 AT 03:30 CST ON APR 22	34.8 ON APR 22	0 B ON MAR 22	46 700	1967
1968	9.49 ON AUG 25	9.29 ON AUG 25	0.017B ON JAN 08	31 500	1968
1969	---	34.8 ON APR 12	0.017B ON FEB 11	35 400	1969
1970	---	27.8 B ON APR 18	0.034B ON FEB 15	42 600	1970
1971	---	28.6 B ON APR 10	0.014B ON FEB 09	33 300	1971
1972	---	19.3 B ON APR 16	0.006B ON JAN 26	21 800	1972
1973	---	7.36 ON OCT 14	0.045B ON FEB 01	33 800	1973
1974	64.0 B AT 09:00 CST ON APR 18	60.9 ON APR 19	0.057B ON DEC 11	77 800	1974
1975	14.6 AT 15:48 CST ON JUN 23	14.1 ON JUN 23	0.048 ON SEP 26	22 000	1975
1976	---	16.6 B ON APR 08	0 ON SEP 05	15 600	1976
1977	6.51 AT 06:45 CST ON SEP 27	6.48 ON SEP 27	0 B ON JAN 01	18 600	1977
1978	28.9 B AT 04:51 CST ON APR 11	28.6 B ON APR 11	0.022 ON SEP 11	43 900	1978
1979	58.3 B AT 01:40 CST ON APR 21	56.4 B ON APR 20	0.012B ON MAR 13	40 800	1979
1980	11.8 B AT 04:56 CST ON APR 09	11.4 B ON APR 09	0 ON JUL 16	12 800	1980
1981	2.50 AT 17:00 CST ON OCT 17	2.43 ON OCT 17	0 B ON JAN 17	17 300	1981
1982	10.2 B AT 06:50 CST ON APR 15	9.83B ON APR 15	0.008B ON FEB 11	31 900	1982
1983	20.4 B AT 04:58 CST ON APR 07	19.8 B ON APR 07	0.006B ON MAR 25	43 100	1983
1984	5.05 AT 15:12 CST ON JUN 18	4.46 ON JUN 18	0 A ON SEP 23	12 100	1984
1985	7.79 AT 18:58 CST ON AUG 24	7.47 ON AUG 24	0.001B ON FEB 19	23 500	1985
1986	26.8 B AT 21:12 CST ON MAR 31	26.0 B ON APR 01	---	---	1986
				47 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEINE RIVER NEAR STE. ANNE - STATION NO. 05CH007

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	0	5.87	4.58	2.13	0.399	0.068	0.155	1.51	---	---	1.83	1964
1965	---	---	0	8.20	4.92	2.43	2.09	0.180	0.753	2.22	---	---	2.58	1965
1966	---	---	0.015	10.9	12.4	4.23	9.89	0.349	1.60	0.540	---	---	4.98	1966
1967	---	---	1.56	29.6	6.87	0.634	0.255	0.129	0.020	0.118	---	---	4.84	1967
1968	---	---	0.867	2.09	2.87	1.21	1.10	0.928	1.31	0.982	---	---	1.50	1968
1969	---	---	0.270	7.74	2.89	1.65	1.05	0.527	0.243	0.650	---	---	1.86	1969
1970	---	---	0.110	7.57	13.2	5.79	0.621	0.099	0.102	0.320	---	---	3.46	1970
1971	---	---	0.165	4.28	2.49	0.952	0.418	0.214	0.107	0.624	---	---	1.15	1971
1972	---	---	0.316	6.07	2.74	0.474	0.092	0.237	0.247	0.430	---	---	1.31	1972
1973	---	---	1.57	1.54	1.36	1.60	0.853	0.427	0.973	3.61	---	---	1.49	1973
1974	---	---	0.184	19.5	16.2	3.69	0.020	0.063	0.143	0.249	---	---	4.97	1974
1975	---	---	0.142	1.26	3.33	2.83	2.75	0.169	0.084	1.31	---	---	1.49	1975
1976	---	---	0.217	1.45	1.09	1.03	0.418	0.007	0.007	0.035	---	---	0.773	1976
1977	---	---	0.164	0.616	0.451	0.541	0.217	0.070	0.709	0.929	---	---	0.468	1977
1978	---	---	0.155	9.76	3.30	0.601	0.266	0.059	0.054	0.082	---	---	1.76	1978
1979	---	---	0.095	5.96	4.64	2.09	0.151	0.138	0.180	0.152	---	---	1.66	1979
1980	---	---	0.070	2.32	0.468	0.131	0.076	0.039	0.182	0.279	---	---	0.441	1980
1981	---	---	0.244	5.578	0.559	0.633	0.250	0.134	0.331	1.75	---	---	0.497	1981
1982	---	---	0.187	5.21	2.69	1.12	2.51	1.00	0.195	1.66	---	---	2.00	1982
1983	---	---	1.80	7.86	5.68	3.16	1.49	0.200	0.102	0.195	---	---	1.82	1983
1984	---	---	0.536	0.888	0.876	5.24	0.616	0.066	0.004	0.076	---	---	1.03	1984
1985	---	---	1.22	1.15	1.81	0.833	0.377	0.440	0.432	1.09	---	---	0.920	1985
1986	---	---	2.15	6.77	10.2	0.402	0.399	0.134	0.106	0.475	---	---	2.83	1986
1987	---	---	1.14	5.86	0.858	0.288	0.241	0.034	0.039	0.186	---	---	1.08	1987
1988	---	---	0.024	0.789	0.441	0.161	0.089	0.015	0	0.021	---	---	0.191	1988
1989	---	---	0.116	0.866	1.17	0.869	0.443	0.162	0.066	0.125	---	---	0.475	1989
1990	---	---	0.996	0.997	1.59	6.21	0.327	0.008	0	0.017	---	---	1.25	1990
MEAN	---	---	0.521	5.92	3.91	1.92	1.01	0.221	0.305	0.709	---	---	1.80	MEAN

LOCATION - LAT 49 39 10 N LONG 096 37 00 W DRAINAGE AREA, 566 km^2 NATURAL FLOW

SEINE RIVER NEAR STE. ANNE - STATION NO. 05OH007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	25.7 B ON APR 18	0 B ON MAR 01 *	38 700	1964
1965	---	27.8 ON APR 15	0 B ON MAR 01	54 700	1965
1966	---	44.7 ON JUL 04	0 B ON MAR 01	105 000	1966
1967	---	96.3 ON APR 22 *	0 B ON MAR 01	102 000	1967
1968	7.67 AT 12:00 CST ON MAY 20	7.53 ON MAY 19	0 B ON MAR 01	11 800	1968
1969	---	20.8 ON APR 12	0.102 ON SEP 04	39 400	1969
1970	23.5 AT 11:20 CST ON JUN 01	23.0 ON JUN 01	0.017 ON SEP 24	73 300	1970
1971	---	8.13B ON APR 09	0.031 ON SEP 26	24 300	1971
1972	---	19.7 B ON APR 16	0 ON AUG 04	27 800	1972
1973	---	8.52 ON OCT 15	0 ON AUG 31	31 600	1973
1974	60.0 AT 02:40 CST ON APR 22 *	58.9 ON APR 22	0.003E ON JUL 22	105 000	1974
1975	16.9 AT 03:25 CST ON JUL 02	16.5 ON JUL 02	0.012 ON SEP 17	31 400	1975
1976	---	5.89B ON APR 07	0 ON AUG 08	16 400	1976
1977	3.00B AT 09:40 CST ON MAR 31	2.35 ON SEP 28	0.008B ON MAR 01	9 900	1977
1978	24.2 B AT 10:04 CST ON APR 12	21.2 B ON APR 12	0.015 ON SEP 11	37 300	1978
1979	34.1 B AT 09:23 CST ON APR 19	29.1 B ON APR 19	0.060B ON MAR 16	35 200	1979
1980	10.4 B AT 11:15 CST ON APR 07	9.18B ON APR 07	0 ON JUL 31	9 330	1980
1981	2.00 AT 02:45 CST ON OCT 15	1.93 ON OCT 15	0.019B ON MAR 05	10 500	1981
1982	22.6 AT 16:30 CST ON APR 16	19.6 B ON APR 16	0.044B ON MAR 01	42 300	1982
1983	---	27.0 B ON APR 02	0.073 ON SEP 19	38 500	1983
1984	15.5 AT 12:18 CST ON JUN 12	15.3 ON JUN 12	0.003B ON MAR 01	21 700	1984
1985	4.40B AT 23:37 CST ON MAR 24	4.01B ON MAR 25	0.119 ON AUG 02	19 500	1985
1986	24.8 AT 10:52 CST ON MAR 31	23.7 ON MAY 03	0.034E ON SEP 04	60 000	1986
1987	---	9.27A ON APR 10	0.004 ON SEP 18	22 900	1987
1988	---	3.00B ON APR 05	0 B ON MAR 01	4 040	1988
1989	2.86B AT 03:48 CST ON APR 21	2.51 ON APR 24	0.004 ON SEP 26	10 100	1989
1990	11.9 AT 22:16 CST ON JUN 05	11.7 ON JUN 05	0 ON AUG 25	26 500	1990
				38 100	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEINE RIVER SOUTH OF PRAIRIE GROVE - STATION NO. 05OH009

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1986	---	---	---	---	---	0.470	0.401	0.172	0.172	0.254	---	---	---	1986
1987	---	---	0.818	5.08	0.945	0.419	0.240	0.343	0.053	0.218	---	---	1.00	1987
1988	---	---	0.100	1.18	0.495	0.128	0.086	0.005	0	0.029	---	---	0.250	1988
1989	---	---	0.015	1.82	0.977	0.938	0.543	0.133	0.059	0.124	---	---	0.571	1989
1990	---	---	0.376	0.968	0.720	1.37	0.484	0.013	0	0.017	---	---	0.490	1990
MEAN	---	---	0.327	2.26	0.784	0.665	0.351	0.133	0.057	0.128	---	---	0.578	MEAN

LOCATION - LAT 49 46 15 N LONG 096 57 27 W DRAINAGE AREA, 986 km^2 REGULATED SINCE 1961

SEINE RIVER SOUTH OF PRAIRIE GROVE - STATION NO. 05OH009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1986	---	---	0.036 ON OCT 11	---	1986
1987	---	23.9 B ON APR 07 *	0.010A ON SEP 15	21 200	1987
1988	4.23B AT 08:04 CST ON APR 05	3.65B ON APR 05	0 B ON MAR 01 *	5 300	1988
1989	8.35 AT 19:24 CST ON APR 16 *	7.97B ON APR 22	0.003 ON SEP 24	12 100	1989
1990	4.19 AT 23:47 CST ON JUN 03	3.55B ON APR 01	0 E ON SEP 01	10 400	1990
				12 300	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SHANNON CREEK NEAR MORDEN - STATION NO. 05OF021

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	0	5.88	4.72	0.486	0.168	0.023	0.027	0.022	---	---	1.53	1970
1971	---	---	0	5.96	0.429	0.120	0.071	0.012	0.017	0.138	---	---	0.853	1971
1972	---	---	1.15	1.93	0.481	0.088	0.021	0.008	0	0	---	---	0.463	1972
1973	---	---	0.272	0.014	0.005	0	0.005	0	0	0	---	---	0.037	1973
1974	---	---	0	9.26	6.14	0.790	0.083	0.001	0.001	0.004	---	---	2.02	1974
1975	---	---	0	0.939	0.386	0.387	0.074	0	0	0	---	---	0.220	1975
1976	---	---	0	1.74	0.214	0.064	0.002	0	0	0	---	---	0.493	1976
1977	---	---	0	0.002	0.166	0.076	0	0	0.320	0.022	---	---	0.073	1977
1978	---	---	0.004	2.10	0.521	0.382	0.066	0.010	0.086	---	---	---	0.391	1978
1979	---	---	0	6.65	2.85	0.929	0.223	0	0	0	---	---	1.32	1979
1980	---	---	0	0.325	0.001	0	0.013	0	0	0	---	---	0.042	1980
1981	---	0.186	0.069	0.009	0.010	0.009	0	0	0	0	---	---	0.012	1981
1982	---	---	0.186	0.471	0.003	0.060	0	0	0	0.047	---	---	0.095	1982
1983	---	---	0.395	1.07	0.156	0.079	0.041	0	0	0	---	---	0.215	1983
1984	---	---	0.123	0.089	0.116	0.001	0	0	0	0	---	---	0.041	1984
1985	---	---	1.06	0.332	0.042	0.046	0.022	1.15	0.211	0.138	---	---	0.378	1985
1986	---	---	1.18	1.34	2.66	0.205	0.078	0.009	0	0	---	---	0.687	1986
1987	---	---	0.460	2.28	0.010	0.009	0.012	0.018	0	0	---	---	0.343	1987
MEAN	---	0.186	0.272	2.41	1.05	0.218	0.046	0.068	0.037	0.021	---	---	0.512	MEAN

LOCATION - LAT 49 16 10 N LONG 097 58 40 W DRAINAGE AREA, 261 km² NATURAL FLOW

REMARKS - WATER LEVELS OBTAINED NEAR KRONSGART IN 1922, 24, 26-30. 1981 MAX AND MIN DAILY DISCHARGE OF 1.39 AND 0 OCCURRED IN FEB

SHANNON CREEK NEAR MORDEN - STATION NO. 05OF021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	42.2 AT 11:35 CST ON APR 26	28.1 ON APR 26	0B ON MAR 01 *	32 400	1970
1971	65.1 B AT 08:53 CST ON APR 10 *	46.7 B ON APR 10	0B ON MAR 01	18 100	1971
1972	---	9.34 B ON MAR 18	0B ON MAR 01	9 810	1972
1973	---	1.02 B ON MAR 12	0B ON MAR 01	788	1973
1974	---	72.2 ON MAY 21 *	0B ON MAR 01	42 700	1974
1975	4.11 AT 19:54 CST ON APR 29	3.60 B ON APR 14	0B ON MAR 01	4 670	1975
1976	18.5 AT 20:19 CST ON APR 05	13.1 B ON APR 04	0B ON MAR 01	10 400	1976
1977	3.34 AT 08:26 CST ON SEP 26	3.00 ON SEP 26	0B ON MAR 01	1 530	1977
1978	---	9.88 B ON APR 08	0B ON MAR 01	6 270	1978
1979	---	56.4 B ON APR 20	0B ON MAR 01	27 900	1979
1980	---	1.20 B ON APR 06	0B ON MAR 01	880	1980
1981	---	0.139B ON MAR 18	0 ON APR 12	258	1981
1982	---	2.93 B ON MAR 31	0B ON MAR 01	2 010	1982
1983	5.61 AT 12:13 CST ON APR 05	4.01 ON APR 05	0B ON MAR 01	4 560	1983
1984	---	1.14 B ON MAR 27	0B ON MAR 01	877	1984
1985	10.4 AT 03:00 CST ON AUG 18	9.39 ON AUG 18	0B ON MAR 01	8 000	1985
1986	15.4 AT 10:15 CST ON MAY 12	11.7 ON MAY 12	0B ON MAR 01	14 500	1986
1987	10.2 B AT 18:59 CST ON APR 05	9.46 B ON APR 05	0B ON MAR 01	7 260	1987
				10 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SHANNON CREEK NEAR MORRIS - STATION NO. 05OF014

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.094	11.2	0.713	0.129	0.063	0	0	0	---	---	1.50	1960
1961	---	---	1.47	0.889	0.020	0	0.002	0	0	0	---	---	0.297	1961
1962	---	---	0	6.76	2.08	0.955	0.082	0.032	0	0	---	---	1.22	1962
1963	---	---	0.292	0.335	0.001	2.91	0.067	0.004	0.001	0	---	---	0.447	1963
1964	---	---	0	2.37	0.128	0.153	0.039	0.093	0.231	0.032	---	---	0.374	1964
1965	---	---	0	10.8	1.24	0.253	0.054	0	0	0	---	---	1.52	1965
1966	---	---	4.57	3.94	0.319	0.036	4.01	0	0	0	---	---	1.61	1966
1967	---	---	0	14.1	1.67	0.125	0.027	0	0	0	---	---	1.96	1967
1968	---	---	1.36	0.478	0.404	0.074	0.199	3.70	1.64	0.357	---	---	1.03	1968
1969	---	---	0	10.4	0.832	0.524	1.56	0.090	0.035	0.047	---	---	1.66	1969
1970	---	---	0	15.4	9.70	1.24	0.448	0.115	0.031	0.009	---	---	3.35	1970
1971	---	---	0	12.2	0.413	0.141	0.050	0	0	0.097	---	---	1.61	1971
1972	---	---	2.09	4.67	0.525	0.118	0.409	0.215	0.088	0.034	---	---	1.01	1972
1973	---	---	0.608	0.075	0.908	0.006	0.010	0.039	0.003	0.010	---	---	0.056	1973
1974	---	---	0	21.3	11.3	0.865	0.143	0.001	0.018	0	---	---	4.17	1974
1975	---	---	0	1.68	0.670	0.405	0.353	0	0	0	---	---	0.385	1975
1976	---	---	0	8.56	0.231	0.094	0	0	0	0	---	---	1.09	1976
1977	---	---	0	0.154	0.066	0.010	0.025	0	0.225	0.240	---	---	0.090	1977
1978	---	---	0.009	5.84	0.509	0.103	0.022	0	0.027	0.009	---	---	0.800	1978
1979	---	---	0	---	---	---	0.244	0.019	0	0	---	---	---	1979
1980	---	---	0	0.977	0.006	0	0	0	0	0	---	---	0.120	1980
1981	---	---	0.341	0.056	0.165	0.025	0.007	0.085	0	0	---	---	0.086	1981
1982	---	---	0.226	2.70	0.005	0.028	0	0	0	0.001	---	---	0.363	1982
1983	---	---	0.939	5.54	0.057	0.008	0.004	0	0	0	---	---	0.805	1983
1984	---	---	0.187	0.207	0.058	0.128	0.004	0	0	0	---	---	0.072	1984
1985	---	---	5.52	0.672	0.117	0.003	0.150	1.92	0.337	0.232	---	---	1.13	1985
1986	---	---	3.51	3.74	8.30	0.124	0.041	0.008	0	0	---	---	1.23	1986
1987	---	---	0	2.95	0.041	0.002	0	0.003	0.017	0	---	---	1.23	1987
1988	---	---	0.123	0.567	0	0	0	0	0	0	---	---	0.085	1988
1989	---	---	0	2.84	0.062	0	0	0	0	0	---	---	0.356	1989
1990	---	---	0.173	2.95	0.072	0.482	0.184	0	0	0	---	---	0.475	1990
MEAN	---	---	0.758	5.38	1.32	0.305	0.266	0.204	0.086	0.034	---	---	1.04	MEAN

LOCATION - LAT 49 21 17 N DRAINAGE AREA, 648 km²
LONG 097 25 18 W NATURAL FLOW

SHANNON CREEK NEAR MORRIS - STATION NO. 05OF014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	45.3 CN APR 07	OB CN MAR 01 *	31 800	1960
1961	---	8.24B CN MAR 25	OB CN MAR 01	6 290	1961
1962	---	42.8 B CN APR 21	0 CN MAR 01	25 900	1962
1963	---	21.3 CN JUN 05	OB CN MAR 01	9 450	1963
1964	---	11.0 B CN APR 11	OB CN MAR 01	7 920	1964
1965	---	47.6 B CN APR 13	OB CN MAR 01	32 100	1965
1966	---	47.3 B CN APR 01	OB CN MAR 01	34 100	1966
1967	---	91.7 B CN APR 21	OB CN MAR 01	41 500	1967
1968	---	24.4 CN AUG 27	OB CN MAR 01	21 800	1968
1969	---	54.1 B CN APR 12	OB CN MAR 01	35 100	1969
1970	---	45.9 CN APR 30	OB CN MAR 01	70 800	1970
1971	---	116 CN APR 11	OB CN MAR 01	34 000	1971
1972	---	15.2 B CN APR 15	OB CN MAR 01	21 400	1972
1973	---	2.09B CN MAR 21	OB CN MAR 01	2 030	1973
1974	---	126 CN APR 18 *	OB CN MAR 01	88 200	1974
1975	---	6.77 CN APR 29	OB CN MAR 01	8 150	1975
1976	---	58.9 B CN APR 06	OB CN MAR 01	23 000	1976
1977	2.13 AT 23:58 CST ON SEP 28	1.95 CN SEP 29	OB CN MAR 01	1 890	1977
1978	---	22.7 B CN APR 09	OB CN MAR 01	16 900	1978
1979	---	---	OB CN MAR 01	---	1979
1980	---	5.17B CN APR 07	OB CN MAR 01	2 550	1980
1981	3.67 AT 12:35 CST ON MAY 25	2.41 CN MAY 25	OB CN MAR 01	1 810	1981
1982	---	11.3 B CN APR 13	OB CN MAR 01	7 690	1982
1983	---	18.5 CN APR 06	OB CN MAR 01	17 000	1983
1984	---	1.83B CN MAR 29	OB CN MAR 01	1 530	1984
1985	---	28.2 B CN MAR 19	OB CN MAR 01	23 900	1985
1986	50.4 AT 04:51 CST ON MAY 13	40.2 CN MAY 13	OB CN MAR 01	47 100	1986
1987	121 * B AT 11:45 CST ON APR 06 *	83.0 B CN APR 06	OB CN MAR 01	25 900	1987
1988	---	4.45B CN APR 04	0 CN MAY 03	1 800	1988
1989	23.4 AT 09:57 CST ON APR 16	16.5 B CN APR 16	OB CN MAR 01	7 540	1989
1990	26.2 AT 02:27 CST ON APR 02	20.2 B CN APR 02	OB CN MAR 01	10 000	1990
				22 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SHANNON CREEK NEAR WINKLER - STATION NO. 05OF022

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1988	---	---	0.060	0.130	0	0	0	0	0	0	---	---	0.024	1988
1989	---	---	0	0.184	0.002	0	0	0	0	0	---	---	0.023	1989
1990	---	---	0.013	0.871	0.018	0.148	0.007	0	0	0	---	---	0.129	1990
MEAN	---	---	0.024	0.395	0.007	0.049	0.002	0	0	0	---	---	0.059	MEAN

LOCATION - LAT 49 16 55 N LONG 097 52 15 W DRAINAGE AREA, 308 km² NATURAL FLOW

SHANNON CREEK NEAR WINKLER - STATION NO. 05OF022

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1988	---				
1989	3.06B AT 03:02 CST ON APR 19 *	0.830B ON APR 03 1.45 B ON APR 19	0B ON MAR 01 * 0B ON MAR 01	499 481	1988 1989
1990	---	7.05 B ON APR 01 *	0B ON MAR 01	2 740	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 240	MEAN

SHELL RIVER AT ASESSIPPI - STATION NO. 05MD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	---	7.88	2.95	1.49	1.59	1.94	1.78	1.03	---	1914
1915	0.462	0.293	0.486	3.76	2.80	2.96	3.53	1.58	1.79	2.76	1.99	0.850	1.94	1915
1916	1.13	0.850	0.708	16.9	10.2	11.4	7.68	2.50	2.89	4.65	3.54	1.70	5.50	1916
1917	0.827	0.824	0.971	3.33	20.6	13.6	18.3	4.19	3.18	1.94	2.49	1.04	5.99	1917
1918	0.983	1.07	1.99	7.83	4.98	6.47	10.6	5.80	3.69	3.18	2.13	1.61	4.22	1918
1919	1.46	1.20	0.864	8.80	10.4	4.70	10.9	3.75	4.61	3.89	2.08	1.15	4.51	1919
1920	1.12	1.01	1.22	9.70	39.7	14.4	5.05	2.46	2.01	---	---	---	---	1920
1921	---	---	---	8.02	13.3	23.1	16.6	11.9	6.92	6.96	---	---	---	1921
MEAN	0.997	0.875	1.04	8.62	14.6	10.6	9.45	4.21	3.34	3.62	2.34	1.23	4.43	MEAN

LOCATION - LAT 50 56 50 N LONG 101 19 00 W DRAINAGE AREA, 2 000 km² NATURAL FLOW

SHELL RIVER AT ASESSIPPI - STATION NO. 05MD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1914	---	---	---	---	1914
1915	---	9.68 ON APR 18	0.283B ON FEB 05 *	61 300	1915
1916	---	36.5 B ON APR 19	0.708B ON MAR 01	174 000	1916
1917	---	33.7 ON JUL 13	0.538B ON DEC 13	189 000	1917
1918	---	21.8 ON JUL 04	0.736B ON JAN 11	133 000	1918
1919	---	16.4 ON JUL 09	0.765B ON MAR 04	142 000	1919
1920	---	72.2 ON MAY 14 *	---	---	1920
1921	---	41.9 ON JUN 25	---	---	1921
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		140 000	MEAN

SHELL RIVER NEAR DUCK LAKE - STATION NO. 05MD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1920	---	---	---	---	---	---	---	---	---	1.36	1.50	1.13	---	1920
1921	0.664	0.726	0.828	5.95	11.7	19.0	13.7	10.6	6.31	6.31	6.47	3.41	7.17	1921
1922	1.82	1.93	1.68	21.6	45.0	12.4	5.65	3.12	4.02	5.32	3.09	1.95	8.63	1922
1923	1.73	1.22	1.23	9.01	25.3	14.8	8.18	4.14	3.17	2.46	2.28	1.29	6.18	1923
1924	0.608	0.152	0.222	1.66	8.09	6.71	3.69	7.64	3.44	4.23	2.52	1.39	3.38	1924
1925	1.17	1.23	1.88	18.2	8.08	11.6	8.46	3.15	2.30	2.72	2.56	1.29	5.22	1925
1926	1.05	1.04	1.56	14.1	7.07	5.33	2.25	1.98	2.89	5.11	3.58	1.57	3.97	1926
1927	1.01	0.981	1.06	8.33	22.1	11.0	8.69	4.79	4.38	3.90	---	---	---	1927
1928	---	---	---	---	9.24	8.30	6.95	4.00	2.14	2.11	---	---	---	1928
1929	---	---	---	---	5.43	3.93	2.21	1.19	1.04	1.31	---	---	---	1929
1930	---	---	---	---	3.79	3.79	2.30	1.43	1.33	1.26	---	---	---	1930
1931	---	---	---	---	2.00	1.57	1.36	0.859	1.20	1.11	---	---	---	1931
1932	---	---	---	---	2.58	1.72	3.28	1.26	1.29	1.68	---	---	---	1932
MEAN	1.15	0.954	1.21	11.3	12.5	8.35	5.56	3.68	2.63	2.76	3.14	1.72	5.76	MEAN

LOCATION - LAT 51 10 10 N LONG 101 19 40 W DRAINAGE AREA, 1 680 km² NATURAL FLOW

SHELL RIVER NEAR DUCK LAKE - STATION NO. 05MD002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1920	---	---	---	---	1920
1921	---	35.7 ON JUN 25	0.651B ON JAN 01	226 000	1921
1922	---	63.4 ON MAY 07 *	1.27 B ON FEB 16	272 000	1922
1923	---	47.9 ON MAY 06	0.963B ON DEC 31	195 000	1923
1924	---	18.2 ON JUN 21	0.113B ON FEB 20 *	107 000	1924
1925	---	32.3 ON APR 17	1.13 B ON JAN 01	165 000	1925
1926	---	23.2 ON APR 22	0.963B ON JAN 23	125 000	1926
1927	---	37.1 ON MAY 04	---	---	1927
1928	---	---	---	---	1928
1929	---	---	---	---	1929
1930	---	---	---	---	1930
1931	---	---	---	---	1931
1932	---	---	---	---	1932
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		182 000	MEAN

SHELL RIVER NEAR INGLIS - STATION NO. 05MD005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	29.6	6.18	11.5	8.38	2.81	2.07	---	---	---	1948
1949	---	---	---	5.19	2.97	4.70	2.44	2.34	1.25	1.15	1.28	---	---	1949
1950	---	---	---	---	9.85	6.62	5.71	3.44	1.29	2.22	---	---	---	1950
1951	---	---	---	9.21	17.7	4.36	3.73	2.79	5.02	5.66	---	---	---	1951
1952	---	---	---	10.3	5.64	3.66	1.92	1.14	1.81	2.01	---	---	---	1952
1953	---	---	---	6.52	9.02	10.5	19.5	5.26	2.53	4.52	5.35	---	---	1953
1954	---	---	---	6.82	15.0	30.2	14.0	3.23	5.23	6.73	4.27	---	---	1954
1955	---	---	---	16.8	17.5	7.55	4.32	1.43	1.05	1.46	---	---	---	1955
1956	---	---	1.08	4.78	14.4	6.52	7.15	2.75	2.47	1.95	1.76	1.33	---	1956
1957	1.35	1.07	0.930	9.16	15.1	3.92	2.08	1.40	1.17	1.31	1.36	0.886	3.32	1957
1958	0.419	0.369	0.748	4.02	2.21	1.58	1.01	0.567	1.18	1.58	1.79	0.686	1.35	1958
1959	0.673	0.446	1.51	5.48	6.04	4.38	5.25	1.09	1.41	2.68	2.47	1.72	2.77	1959
1960	0.905	1.03	1.09	10.6	8.63	9.59	2.03	0.652	0.343	0.528	1.02	0.563	3.07	1960
1961	0.728	0.541	0.503	1.48	1.38	0.790	0.407	0.143	0.122	0.323	0.829	0.687	0.660	1961
1962	0.822	1.02	1.03	2.33	2.45	1.33	0.321	0.386	0.477	0.847	0.896	0.368	1.02	1962
1963	0.427	0.236	0.815	5.06	4.74	2.32	1.48	0.701	0.637	0.849	0.798	0.624	1.54	1963
1964	0.563	0.555	0.555	4.94	4.07	1.28	0.612	0.502	0.471	0.736	0.556	0.015	1.24	1964
1965	0.001	0	0	5.69	9.14	6.17	2.06	1.64	1.60	3.19	1.43	0.874	2.66	1965
1966	0.949	0.972	1.07	8.71	12.1	7.37	6.20	1.39	0.576	0.808	0.888	0.790	3.51	1966
1967	0.780	0.681	0.716	1.87	5.18	5.51	1.52	0.630	0.284	0.584	0.804	0.686	1.92	1967
1968	0.659	0.693	1.38	4.57	3.24	1.65	1.02	1.08	0.908	0.910	0.945	0.654	1.36	1968
1969	0.799	0.926	1.05	5.03	3.16	1.62	2.11	2.08	0.941	2.21	1.62	0.993	1.88	1969
1970	0.785	0.814	0.807	7.13	18.7	3.71	2.77	3.56	0.624	1.29	6.52	1.77	4.06	1970
1971	1.19	1.08	0.936	15.4	7.94	4.27	2.78	1.89	0.599	1.32	1.46	1.11	3.33	1971
1972	1.16	1.06	1.10	11.3	16.0	3.45	2.69	1.00	0.655	0.891	0.916	0.578	3.40	1972
1973	0.292	0.277	0.758	4.68	2.29	3.30	3.90	1.01	1.69	1.75	1.47	1.22	1.89	1973
1974	0.871	0.796	0.902	15.4	23.6	10.2	2.71	1.40	1.83	2.85	1.76	1.12	5.30	1974
1975	1.10	1.04	1.10	7.58	17.7	10.4	3.47	1.41	1.80	2.99	2.78	1.16	4.40	1975
1976	1.06	1.26	1.11	18.4	7.11	24.7	9.34	1.90	0.935	1.01	0.823	0.499	5.64	1976
1977	0.364	0.497	0.523	5.03	3.24	1.66	2.07	1.50	3.40	4.24	2.30	1.35	2.18	1977
1978	1.09	0.745	1.34	6.38	6.88	3.45	1.57	0.598	0.818	1.39	1.41	0.752	2.19	1978
1979	0.523	0.499	0.568	11.8	21.7	11.9	2.09	0.752	0.902	0.835	1.56	0.805	4.51	1979
1980	0.745	0.753	0.889	8.22	3.29	1.02	0.832	0.967	0.886	1.18	1.23	0.530	1.70	1980
1981	0.338	0.423	2.97	4.47	4.66	1.95	1.44	0.867	0.585	1.29	1.33	0.504	1.56	1981
1982	0.217	0.371	0.773	4.98	2.97	1.88	4.10	2.48	0.492	1.20	1.34	0.699	1.84	1982
1983	0.819	0.831	0.748	7.39	12.2	7.65	6.34	1.93	0.714	1.28	1.56	0.963	3.56	1983
1984	0.586	0.707	4.64	7.93	7.39	6.47	5.93	0.757	0.766	2.24	1.20	2.00	3.39	1984
1985	1.14	0.854	1.03	11.5	6.35	4.55	2.30	4.34	2.50	3.15	1.84	1.40	3.41	1985
1986	1.52	1.19	1.96	12.6	10.1	3.55	2.56	1.56	0.741	3.12	1.57	1.22	3.48	1986
1987	1.07	0.785	0.981	12.3	3.32	3.06	4.13	1.90	1.00	1.84	2.01	1.51	2.83	1987
1988	0.692	0.720	0.709	13.6	27.7	4.33	1.67	0.811	0.420	0.724	0.741	0.673	4.41	1988
1989	0.600	0.612	0.579	3.01	1.78	2.71	2.28	0.770	1.22	1.60	2.09	1.19	1.54	1989
1990	0.847	0.976	1.44	11.9	17.6	5.54	2.34	0.803	0.554	0.720	0.832	0.622	3.69	1990
MEAN	0.761	0.730	1.08	8.04	9.85	5.75	3.81	1.75	1.39	1.89	1.71	0.930	2.78	MEAN

LOCATION - LAT 50 57 40 N LONG 101 19 05 W

DRAINAGE AREA, 2 000 km^2
NATURAL FLOW

SHELL RIVER NEAR INGLIS - STATION NO. 05MD005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	43.9 ON MAY 01	---	---	1948
1949	---	8.67B ON APR 07	---	---	1949
1950	---	---	---	---	1950
1951	---	34.3 ON MAY 09	---	---	1951
1952	---	16.5 ON APR 23	---	---	1952
1953	---	42.6 ON JUL 06	---	---	1953
1954	---	42.2 ON JUN 24	---	---	1954
1955	---	---	---	---	1955
1956	---	25.3 ON MAY 14	---	---	1956
1957	---	20.2 ON MAY 12	---	---	1957
1958	---	28.1 ON MAY 08	---	---	1958
1959	---	7.65B ON APR 09	0.680B ON DEC 30	105 000	1959
1960	---	10.1 ON MAY 09	0.283B ON JAN 25	42 500	1960
1961	---	---	0.311B ON FEB 10	87 500	1961
1962	---	21.5 ON APR 15	---	---	1962
1963	---	2.75B ON APR 15	0.198E ON SEP 30	97 000	1963
1964	---	6.97 ON APR 24	0.020 ON SEP 05	20 800	1964
1965	---	8.72E ON MAY 17	0.227 ON JUL 27	32 200	1965
1966	---	11.6 B ON APR 12	0.147B ON JAN 11	48 700	1966
1967	---	---	0.003B ON DEC 27	39 100	1967
1968	---	14.0 ON MAY 06	---	---	1968
1969	---	10.5 A ON MAY 14	0 B ON JAN 08 *	83 900	1969
1970	29.4 AT 19:36 CST ON MAY 15	11.2 A ON MAY 12	0.436 ON SEP 25	111 000	1970
1971	30.3 AT 19:45 CST ON APR 20	7.62B ON APR 12	0.167 ON SEP 05	60 600	1971
1972	27.9 AT 08:31 CST ON MAY 07	15.1 A ON APR 19	0.652B ON DEC 14	42 900	1972
1973	---	---	0.612A ON SEP 16	59 300	1973
1974	46.4 AT 06:02 CST ON APR 24	28.0 ON MAY 15	---	---	1974
1975	26.3 AT 05:04 CST ON MAY 07	30.0 ON APR 28	0.303 ON SEP 20	128 000	1975
1976	---	27.7 ON MAY 07	0.479 ON SEP 22	105 000	1976
1977	19.5 AT 15:36 CST ON APR 17	7.93B ON APR 11	0.399B ON DEC 31	108 000	1977
1978	12.6 AT 09:47 CST ON APR 23	43.3 ON APR 24	0.249B ON JAN 20	59 600	1978
1979	45.8 AT 23:07 CST ON MAY 23	---	0.779B ON FEB 12	167 000	1979
1980	13.0 B AT 23:10 CST ON APR 12	26.0 ON MAY 06	---	---	1980
1981	---	60.8 E ON JUN 22 *	0.850B ON DEC 15	139 000	1981
1982	13.7 AT 01:24 CST ON JUL 25	16.5 ON APR 17	0.413B ON DEC 31	178 000	1982
1983	---	12.4 ON APR 26	0.323B ON JAN 23	68 900	1983
1984	17.8 AT 14:56 CST ON JUL 04	44.8 ON MAY 24	0.365 ON AUG 12	69 600	1984
1985	22.8 AT 00:13 CST ON APR 14	11.8 ON APR 21	0.259 ON OCT 05	142 000	1985
1986	20.0 B AT 22:40 CST ON APR 07	6.93E ON APR 02	0.358 ON AUG 02	53 900	1986
1987	32.1 B AT 00:00 CST ON APR 05	13.1 ON JUL 24	0.310B ON DEC 31	49 300	1987
1988	67.4 AT 15:00 CST ON MAY 09 *	24.1 A ON APR 24	0.166B ON JAN 31	58 100	1988
1989	6.15B AT 16:26 CST ON APR 02	17.7 ON JUL 04	0.454 ON SEP 29	112 000	1989
1990	36.3 AT 07:30 CST ON MAY 01	18.3 ON APR 17	0.050 ON SEP 06	107 000	1990
		16.2 ON APR 08	0.809B ON FEB 25	108 000	
		24.6 E ON APR 05	0.486B ON MAR 21	110 000	
		66.5 A ON MAY 09	0.191B ON FEB 23	89 200	
		5.30 ON JUL 01	0.157B ON JAN 09	140 000	
			0.166B ON MAR 14	48 400	
		35.2 ON MAY 01	0.376A ON SEP 18	116 000	
				87 900	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SHELL RIVER NEAR ROBLIN - STATION NO. 05MD007

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	---	---	---	---	---	---	---	---	---	0.583	---	1962
1963	0.419	0.303	0.375	2.42	2.67	1.37	0.628	0.429	0.402	0.521	0.480	0.308	1.71	1963
1964	0.301	0.253	0.227	2.21	2.87	0.565	0.355	0.338	0.319	0.522	0.709	0.180	1.47	1964
1965	0.062	0.088	0.143	3.95	7.50	4.75	1.45	1.19	1.26	2.14	0.983	0.880	4.08	1965
1966	0.716	0.629	0.649	5.60	10.5	6.50	4.37	0.713	0.368	0.505	0.642	0.588	3.96	1966
1967	0.560	0.441	0.441	3.00	7.51	3.65	0.897	0.470	0.235	0.441	0.502	0.478	3.38	1967
1968	0.534	0.510	0.642	2.49	1.13	0.958	0.768	0.836	0.638	0.579	0.838	0.657	1.30	1968
1969	0.508	0.512	0.522	4.84	2.08	1.32	1.75	1.26	0.456	2.14	1.22	0.711	2.18	1969
1970	0.565	0.534	0.523	3.22	16.8	3.09	2.89	2.36	0.509	1.41	3.72	1.26	5.94	1970
1971	0.873	0.656	0.600	13.5	4.88	2.68	2.04	1.68	0.370	0.922	1.33	1.13	5.38	1971
1972	0.816	0.724	0.777	6.97	13.6	1.97	1.97	0.580	0.400	0.613	0.523	0.447	5.85	1972
1973	0.204	0.173	0.763	5.41	1.01	4.36	2.76	0.674	1.13	1.18	1.08	1.01	1.78	1973
1974	0.606	0.490	0.869	9.35	10.8	7.88	1.92	0.934	1.23	2.07	1.30	0.926	9.23	1974
1975	0.765	0.640	0.850	6.14	15.7	8.91	2.47	0.946	1.20	2.18	2.04	0.954	7.91	1975
1976	0.742	0.776	0.881	12.7	4.72	10.6	5.80	1.27	0.629	0.745	0.609	0.413	9.12	1976
1977	---	---	0.463	2.87	2.17	1.98	---	---	---	---	---	---	1.64	1977
1978	---	---	0.845	4.28	3.89	1.75	---	---	---	---	---	---	2.69	1978
1979	---	---	0.575	5.21	19.7	8.64	---	---	---	---	---	---	8.55	1979
1980	---	---	0.667	3.35	1.84	0.686	---	---	---	---	---	---	2.12	1980
1981	---	---	1.30	2.67	1.72	1.49	---	---	---	---	---	---	1.79	1981
1982	---	---	0.194	2.91	2.28	1.12	---	---	---	---	---	---	1.62	1982
1983	---	---	0.606	4.16	10.0	5.97	4.55	---	---	---	---	---	3.40	1983
1984	---	---	1.26	5.20	7.39	7.00	---	---	---	---	---	---	5.20	1984
1985	---	---	0.865	8.29	4.97	3.81	---	---	---	---	---	---	4.46	1985
1986	---	---	1.02	10.4	9.31	2.36	---	---	---	---	---	---	5.58	1986
1987	---	---	1.56	8.12	4.48	2.84	---	---	---	---	---	---	3.72	1987
1988	---	---	0.757	13.7	27.7	3.66	1.29	---	---	---	---	---	11.4	1988
1989	---	---	0.242	1.41	0.911	2.40	---	---	---	---	---	---	1.23	1989
1990	---	---	1.00	9.82	13.7	3.90	---	---	---	---	---	---	7.10	1990
MEAN	0.548	0.481	0.704	5.78	7.77	3.98	2.26	0.977	0.653	1.15	1.14	0.702	4.55	MEAN

LOCATION - LAT 51 21 39 N LONG 101 15 21 W
DRAINAGE AREA, 1 330 km^2
NATURAL FLOW

REMARKS - AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

SHELL RIVER NEAR ROBLIN - STATION NO. 05MD007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	---	---	---	1962
1963	---	4.47 ON MAY 15	0.309B ON MAR 01	18 000	1963
1964	---	7.14 ON MAY 10	0.227B ON MAR 01	15 500	1964
1965	---	14.0 ON MAY 04	0.108B ON MAR 01 *	43 000	1965
1966	---	18.0 ON MAY 10	0.623B ON MAR 01	61 800	1966
1967	---	9.63 ON MAY 11	0.311B ON MAR 14	35 700	1967
1968	---	4.28 ON APR 16	0.513B ON MAR 21	13 700	1968
1969	---	13.7 ON APR 17	0.515B ON MAR 01	22 900	1969
1970	---	29.4 ON MAY 11	0.521B ON MAR 18	62 700	1970
1971	---	27.9 ON APR 23	0.589B ON MAR 01	56 700	1971
1972	---	29.7 ON MAY 02	0.702B ON MAR 11	61 700	1972
1973	---	3.51B ON APR 13	0.396B ON MAR 01	18 700	1973
1974	---	30.0 ON APR 30	0.869B ON MAR 01	97 300	1974
1975	---	25.9 ON MAY 03	0.850B ON MAR 01	83 400	1975
1976	---	45.9 ON JUN 18	0.861B ON MAR 01	96 100	1976
1977	---	5.75B ON APR 14	0.311B ON MAR 31	17 300	1977
1978	---	9.60 ON APR 26	0.779B ON MAR 01	28 300	1978
1979	44.2 AT 07:25 CST ON MAY 20	43.2 ON MAY 20	0.560B ON MAR 01	90 100	1979
1980	9.56 AT 15:00 CST ON APR 19	9.36 ON APR 19	0.540E ON JUN 26	22 300	1980
1981	---	5.16B ON MAR 30	0.600B ON MAR 01	18 900	1981
1982	---	6.17A ON APR 23	0.175B ON MAR 01	17 100	1982
1983	16.7 AT 08:07 CST ON MAY 26	16.6 ON MAY 26	0.550B ON MAR 01	54 800	1983
1984	18.7 AT 02:22 CST ON JUL 01	18.3 ON JUN 30	0.657B ON MAR 01	54 800	1984
1985	17.8 AT 23:54 CST ON APR 25	17.6 ON APR 26	0.720B ON MAR 03	47 000	1985
1986	18.1 AT 05:16 CST ON APR 14	17.8 ON APR 14	0.824B ON MAR 01	58 800	1986
1987	15.3 AT 21:55 CST ON APR 11	14.9 ON APR 11	0.689B ON MAR 19	39 200	1987
1988	83.6 AT 09:55 CST ON MAY 04 *	75.5 ON MAY 05 *	0.542B ON MAR 20	120 000	1988
1989	5.80 AT 09:26 CST ON JUN 29	5.60 ON JUN 29	0.240B ON MAR 01	13 000	1989
1990	33.5 AT 13:42 CST ON APR 27	33.1 ON APR 27	0.723 ON MAR 13	74 800	1990
A - MANUAL GAUGE (SEE REFERENCE INDEX)	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		48 000	MEAN

SILVER CREEK NEAR GRANDVIEW - STATION NO. 05LJ040

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0.001	0.278	0.245	0.064	0.098	0.049	0.348	0.493	---	---	0.196	1977
1978	---	---	0.034	0.492	0.341	0.317	0.062	0.008	0.050	0.132	---	---	0.178	1978
1979	---	---	0.019	0.980	1.73	0.778	0.034	0.001	0.004	0.068	---	---	0.450	1979
1980	---	---	0.034	0.668	0.108	0.002	0	0	0.008	0.069	---	---	0.110	1980
1981	---	---	0.076	0.218	0.147	0.127	0.403	0	0	0.089	---	---	0.133	1981
1982	---	---	0.002	0.182	0.254	0.022	0.083	0.289	0	0.232	---	---	0.134	1982
1983	---	---	0	0.826	0.977	1.11	1.23	0.002	0	0.148	---	---	0.536	1983
1984	---	---	0.087	0.336	0.293	1.81	1.44	0.010	0	0.111	---	---	0.508	1984
1985	---	---	0.018	0.937	0.235	0.589	0.064	0.136	0.333	0.231	---	---	0.314	1985
1986	---	---	0.118	1.19	2.74	0.271	0.248	0.107	0.057	0.405	---	---	0.644	1986
1987	---	---	0.140	1.60	0.130	0.017	0	0	0.002	0	---	---	0.233	1987
1988	---	---	0.001	0.875	2.43	0.134	0	0	0	0.048	---	---	0.437	1988
1989	---	---	0	0.107	0.026	0.339	0.085	0.066	0.036	0.012	---	---	0.083	1989
1990	---	---	0	1.19	0.880	0.241	0.141	0	0	0.049	---	---	0.310	1990
MEAN	---	---	0.038	0.706	0.753	0.416	0.278	0.048	0.060	0.149	---	---	0.305	MEAN

LOCATION - LAT 51 12 20 N LONG 100 41 42 W DRAINAGE AREA, 137 km^2 REGULATED

SILVER CREEK NEAR GRANDVIEW - STATION NO. 05LJ040

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	0.858 AT 05:48 CST ON SEP 28	0.844 ON SEP 28	0B ON MAR 01 *	4 160	1977
1978	0.926 AT 19:59 CST ON OCT 27	0.704B ON APR 20	0 ON AUG 04	3 770	1978
1979	---	5.71 B ON APR 21	0 ON JUL 21	9 540	1979
1980	1.52 AT 08:30 CST ON APR 19	1.44 ON APR 19	0 ON MAY 30	2 320	1980
1981	4.72 AT 00:06 CST ON JUL 02	2.59 ON JUL 02	0B ON MAR 01	2 810	1981
1982	---	1.26 ON AUG 09	0B ON MAR 01	2 830	1982
1983	---	5.08 B ON APR 23	0B ON MAR 01	11 400	1983
1984	5.76 AT 12:11 CST ON JUN 24	5.25 ON JUN 25	0B ON MAR 01	10 800	1984
1985	2.09 AT 06:17 CST ON APR 23	2.04 ON APR 23	0 ON JUL 16	6 660	1985
1986	11.7 AT 22:50 CST ON MAY 12 *	9.26 ON MAY 11 *	0B ON MAR 01	13 600	1986
1987	---	5.72 B ON APR 07	0 ON JUN 13	4 930	1987
1988	10.8 AT 20:55 CST ON MAY 03	8.71 ON MAY 04	0B ON MAR 01	9 250	1988
1989	2.19 AT 19:01 CST ON JUN 14	1.99 ON JUN 14	0B ON MAR 01	1 760	1989
1990	---	3.00 B ON APR 20	0B ON MAR 01	6 570	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		6 460	MEAN

SINCLAIR RIVER NEAR MINITONAS - STATION NO. 05LE009

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	0.089	0.140	0.156	0.140	0.281	1.29	0.133	0.035	---	---	0.285	1968
1969	---	---	0	2.27	1.40	1.04	0.377	0.236	0.227	1.90	---	---	0.927	1969
1970	---	---	0.001	3.73	5.57	0.720	1.93	0.575	0.156	2.51	---	---	1.90	1970
1971	---	---	0.013	7.95	3.11	3.54	1.38	0.538	0.016	0.275	---	---	1.83	1971
1972	---	---	0.012	5.04	3.40	0.242	0.460	0.037	0.004	0.008	---	---	1.14	1972
1973	---	---	0.160	0.577	0.695	4.16	1.41	0.164	0.730	0.510	---	---	1.04	1973
1974	---	---	0.008	7.73	7.61	1.84	0.066	0.038	0.204	0.255	---	---	2.21	1974
1975	---	---	0	3.25	3.27	1.60	0.080	0.001	0.223	0.668	---	---	1.13	1975
1976	---	---	0.002	5.22	0.951	3.90	0.440	0.014	0	0	---	---	1.30	1976
1977	---	---	0	0.778	0.190	0.059	0.082	0.256	1.70	0.891	---	---	0.491	1977
MEAN	---	---	0.029	3.67	2.44	1.72	0.651	0.315	0.339	0.705	---	---	1.23	MEAN

LOCATION - LAT 52 10 20 N DRAINAGE AREA, 291 km²
LONG 100 56 30 W NATURAL FLOW

SINCLAIR RIVER NEAR MINITONAS - STATION NO. 05LE009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---				
1969	---	3.60 ON JUL 31	0B ON MAR 01 *	6 030	1968
		7.90 ON APR 14	0B ON MAR 01	19 600	1969
1970	---	18.9 ON MAY 03	0B ON MAR 01	40 300	1970
1971	---	25.9 ON APR 17	0 ON SEP 22	38 700	1971
1972	16.4 AT 12:00 CST ON APR 22	15.2 ON APR 22	0B ON MAR 01	24 200	1972
1973	16.5 AT 15:55 CST ON JUN 20	15.0 ON JUN 20	0B ON MAR 01	22 100	1973
1974	41.1 B AT 23:15 CST ON APR 19 *	35.4 ON APR 20 *	0 ON AUG 11	46 700	1974
1975	9.23 AT 17:57 CST ON MAY 03	8.52 ON MAY 03	0B ON MAR 01	23 900	1975
1976	19.1 AT 18:37 CST ON JUN 14	16.1 ON JUN 14	0B ON MAR 01	27 400	1976
1977	---	4.42 ON SEP 26	0B ON MAR 01	10 400	1977
				25 900	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SNOWFLAKE CREEK NEAR SNOWFLAKE - STATION NO. 05OB016

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.058	0.075	0.027	0.011	0	0	0	0	0	0	---	1961
1962	0	0	0	0.466	0.025	0	0	0	0	0	0	0	0.040	1962
1963	0	0	0.067	0.019	0.017	0.085	0.017	0.001	0	0	0	0	0.017	1963
1964	0	0	0.051	0.189	0.008	0.005	0.001	0	0	0	0	0	0.021	1964
1965	0	0	0.008	0.358	0.084	0.079	0.023	0.002	0.049	0.086	0.039	0	0.060	1965
1966	0	0	0.024	3.48	1.63	0.420	0.235	0.110	0.035	0.010	0.002	0	0.545	1966
1967	0	0	0.179	1.31	2.77	0.706	0.270	0.058	0.042	0.347	0.099	0.001	0.485	1967
1968	0	0	0.141	0.395	0.111	0.007	0.100	0.264	0.167	0.021	0.002	0	0.101	1968
1969	0	0	0	7.56	2.94	0.627	0.346	0.117	0.005	0	0	0	0.962	1969
1970	0	0	0	2.09	4.39	2.24	0.990	0.312	0.233	0.067	0.024	0	0.866	1970
1971	0	0	0	8.37	3.95	0.639	0.734	0.166	0.084	0.071	0.013	0.002	1.17	1971
1972	0	0	0.477	3.59	1.47	0.157	0.006	0	0	0	0	0	0.473	1972
1973	0	0	0.149	0.006	0.002	0	0	0	0	0	0	0	0.013	1973
1974	0	0	0	6.61	10.8	3.48	0.645	0.276	0.194	0.135	0.090	0.012	1.86	1974
1975	0	0	0.117	0.736	1.03	0.334	0.028	0.002	0.005	0.006	0.001	0	0.189	1975
1976	0	0	0.017	5.68	1.74	0.517	0.289	0.188	0.045	0.001	0	0	0.701	1976
1977	0	0	0.008	0.074	0.047	0.008	0	0	0.003	0	0	0	0.012	1977
1978	0	0	0.013	2.83	1.23	0.064	0.020	0.011	0	0	0	0	0.346	1978
1979	0	0	0	6.29	11.1	1.69	0.534	0.050	0.071	0.002	0.002	0	1.65	1979
1980	0	0	0.005	0.359	0.057	0.001	0	0	0.006	0.074	0.148	0.009	0.054	1980
1981	0	0.140	0.168	0.598	0.303	0.115	0.016	0.003	0.001	0.002	0.001	0	0.111	1981
1982	0	0	0.176	0.657	1.92	0.123	0.008	0	0	0.006	0.004	0.021	0.386	1982
1983	0	0	0.208	0.660	0.210	0.010	0.146	0.063	0	0.002	0.002	0	0.109	1983
1984	0	0.001	0.110	0.085	0.057	0.002	0	0	0	0	0	0	0.021	1984
1985	0	0	0.628	1.60	0.112	0.120	0.063	0.003	0	0.011	0.002	0	0.211	1985
1986	0	0	0.578	1.54	1.15	1.18	0.187	0.006	0	0	0	0	0.386	1986
1987	0	0	0	7.13	1.39	0.229	0.002	0.047	0.002	0.001	0	0	0.727	1987
1988	0	0.002	0.041	0.084	0.002	0	0	0	0	0	0	0	0.011	1988
1989	0	0	0	0.691	0.029	0	0	0	0	0	0	0	0.059	1989
1990	0	0	0.043	0.402	0.010	0.479	0.061	0.001	0	0	0	0	0.082	1990
MEAN	0	0.005	0.129	2.17	1.58	0.504	0.161	0.057	0.031	0.028	0.014	0.002	0.402	MEAN

LOCATION - LAT 49 01 17 N DRAINAGE AREA, 981 km² INTERNATIONAL GAUGING STATION
LONG 098 36 13 W NATURAL FLOW

SNOWFLAKE CREEK NEAR SNOWFLAKE - STATION NO. 05OB016

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	0.385B ON MAR 27	0B ON MAR 01 *	---	1961
1962	---	2.86 ON APR 18	0 ON JAN 01	1 270	1962
1963	---	0.280 ON MAR 21	0 ON JAN 01	543	1963
1964	---	0.614 ON APR 09	0 ON JAN 01	663	1964
1965	---	1.25 ON APR 11	0B ON JAN 01	1 900	1965
1966	---	6.43 ON APR 14	0B ON JAN 01	17 200	1966
1967	---	8.78 B ON APR 20	0B ON JAN 01	15 300	1967
1968	3.77 AT 07:50 CST ON JUL 30	1.73 ON AUG 25	0B ON JAN 01	3 240	1968
1969	---	18.5 A ON APR 11	0B ON JAN 01	30 400	1969
1970	---	7.90 ON APR 25	0B ON JAN 01	27 300	1970
1971	18.6 B AT 00:00 CST ON APR 12	16.2 B ON APR 11	0B ON JAN 01	36 800	1971
1972	---	9.66 ON APR 17	0B ON JAN 01	15 000	1972
1973	0.600B AT 11:25 CST ON MAR 18	0.436B ON MAR 11	0B ON JAN 01	422	1973
1974	23.3 AT 03:28 CST ON MAY 21 *	19.0 ON MAY 21	0B ON JAN 01	58 800	1974
1975	4.47 AT 20:30 CST ON APR 28	2.81 ON MAY 01	0B ON JAN 05	5 960	1975
1976	---	9.74 B ON APR 06	0B ON JAN 01	22 200	1976
1977	0.824 AT 03:41 CST ON MAY 19	0.450 ON MAY 19	0B ON JAN 01	367	1977
1978	6.99 AT 21:00 CST ON APR 27	6.37 ON APR 28	0B ON JAN 01	10 900	1978
1979	---	32.0 B ON APR 21 *	0B ON JAN 01	52 100	1979
1980	1.89 B AT 09:42 CST ON APR 05	1.21 B ON APR 05	0B ON JAN 01	1 720	1980
1981	2.31 AT 22:16 CST ON MAY 22	0.705 ON APR 07	0B ON JAN 01	3 510	1981
1982	---	14.3 ON JUN 06	0B ON JAN 01	12 200	1982
1983	1.60 B AT 10:55 CST ON APR 06	1.13 B ON APR 07	0B ON JAN 01	3 450	1983
1984	0.640 AT 13:39 CST ON MAR 26	0.421 ON MAR 26	0B ON JAN 01	673	1984
1985	5.38 B AT 12:06 CST ON APR 08	3.25 B ON APR 07	0B ON JAN 01	6 660	1985
1986	12.1 AT 04:56 CST ON JUN 03	9.17 ON JUN 03	0B ON JAN 01	12 200	1986
1987	12.4 B AT 23:15 CST ON APR 05	11.2 ON APR 11	0B ON JAN 01	22 900	1987
1988	0.832 AT 09:37 CST ON APR 03	0.521 ON APR 03	0B ON JAN 01	337	1988
1989	5.23 AT 17:19 CST ON APR 14	3.17 ON APR 15	0B ON JAN 01	1 870	1989
1990	4.38 B AT 16:24 CST ON APR 03	1.93 B ON APR 03	0 ON JAN 01	2 590	1990
				12 700	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOURIS RIVER AT MELITA - STATION NO. 05NF001

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	---	---	---	---	---	3.80	2.39	1.04	0.961	0.686	---	---	---	1913
1914	---	---	---	---	---	---	4.27	3.16	1.20	0.555	---	---	---	1914
1915	0	0	0	0.714	2.03	1.10	0.783	0.274	0.639	0.674	0.198	0	0.961	1915
1916	0	0	0	44.2	64.2	37.5	9.60	5.19	1.66	1.34	0.566	0.142	36.4	1916
1917	0.120	0.110	0.473	20.1	26.7	10.4	2.56	0.488	0.273	0.227	0.447	0.060	14.4	1917
1918	0	0	1.82	10.8	4.79	2.05	0.489	0.491	0.342	0.158	0.284	---	4.85	1918
1919	---	---	---	31.2	27.4	3.25	0.682	0.172	0.160	0.368	---	---	---	1919
1920	---	---	---	24.7	43.8	20.4	3.82	1.58	0.811	0.610	---	---	---	1920
1921	---	---	---	5.67	4.10	2.44	4.18	4.44	1.60	0.935	0.531	---	---	1921
1922	---	---	0.946	35.1	28.9	10.1	3.39	1.76	0.892	---	---	---	18.7	1922
1935	---	---	---	---	---	---	---	---	---	0.072	---	---	---	1935
1936	---	---	---	9.39	0.846	0.096	0.040	0	0	---	---	---	---	1936
1975	---	---	0.605	42.5	184	146	60.1	---	---	---	---	---	93.4	1975
1976	---	---	12.5	387	216	76.1	26.4	16.7	8.61	---	---	---	172	1976
MEAN	0.030	0.028	2.33	55.6	54.8	26.1	9.13	2.94	1.43	0.603	0.405	0.067	48.7	MEAN

LOCATION - LAT 49 15 50 N LONG 100 58 20 W DRAINAGE AREA, 49 100 km^2 REGULATED

REMARKS - THE SOURIS RIVER BASIN STUDY ESTIMATED FLOWS OF HISTORICAL FLOODS, 1882 AND 1904 WERE 850 AND 481 M3/S RESPECTIVELY

SOURIS RIVER AT MELITA - STATION NO. 05NF001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	---	---	---	1913
1914	---	---	---	---	1914
1915	---	5.13 ON JUN 18	0 E ON MAR 01 *	10 100	1915
1916	---	107 ON APR 22	0 B ON MAR 01	383 000	1916
1917	---	29.2 ON MAY 05	0.113B ON MAR 01	152 000	1917
1918	---	15.4 ON APR 10	0.113B ON MAR 01	51 100	1918
1919	---	39.9 ON APR 21	1.73 ON JUN 26	---	1919
1920	---	66.0 ON APR 24	0 B ON APR 01	---	1920
1921	---	14.2 B ON APR 15	0 B ON APR 01	---	1921
1922	---	48.2 ON APR 08	0 B ON MAR 01	197 000	1922
1935	---	---	---	---	1935
1936	---	28.0 ON APR 16	0 B ON APR 01	---	1936
1975	---	242 ON MAY 07	0.368B ON MAR 01	985 000	1975
1976	---	555 B ON APR 12 *	5.66 B ON MAR 01	1 810 000	1976
				513 000	MEAN

B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOURIS RIVER AT SOURIS - STATION NO. 05NG021

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.414	13.7	15.1	4.47	0.640	0.309	0.434	0.619	---	---	4.47	1967
1968	---	---	1.24	0.885	0.942	0.497	0.376	1.95	6.78	4.70	---	---	2.17	1968
1969	---	---	0.242	125	153	68.4	20.1	15.7	3.05	1.91	---	---	48.4	1969
1970	---	---	1.39	19.8	80.8	83.0	46.8	12.9	2.41	2.32	---	---	31.1	1970
1971	---	---	2.09	20.8	19.2	19.3	13.0	11.1	2.05	3.65	---	---	14.0	1971
1972	---	---	14.0	72.5	70.8	26.0	19.4	4.31	3.51	4.13	---	---	26.8	1972
1973	---	---	2.15	1.10	5.81	3.12	2.77	3.00	1.81	4.00	---	---	2.95	1973
1974	---	---	1.67	89.0	167	113	38.3	6.08	2.89	1.91	---	---	52.0	1974
1975	---	---	0.920	30.3	219	175	76.1	18.7	9.37	27.5	---	---	69.5	1975
1976	---	---	6.56	483	278	102	35.8	17.1	9.15	3.15	---	---	116	1976
1977	---	---	1.62	1.63	1.53	1.05	0.748	0.375	0.641	0.618	---	---	1.03	1977
1978	---	---	0.719	16.0	11.7	2.17	4.37	5.88	4.48	0.669	---	---	5.86	1978
1979	---	---	1.76	26.7	141	121	37.9	5.84	1.51	0.991	---	---	42.0	1979
1980	---	---	0.921	4.15	5.10	0.755	0.703	0.989	1.05	3.11	---	---	2.10	1980
1981	---	---	6.23	6.88	4.30	4.18	2.02	1.23	1.00	1.02	---	---	3.35	1981
1982	---	---	0.261	35.6	56.2	24.6	2.90	3.78	4.85	6.67	---	---	16.8	1982
1983	---	---	16.1	78.5	62.6	9.96	6.07	5.07	12.1	6.06	---	---	24.4	1983
1984	---	---	2.99	5.60	20.5	16.0	3.50	2.00	1.45	2.01	---	---	6.73	1984
1985	---	---	16.7	15.3	15.7	10.5	1.73	2.74	4.58	5.20	---	---	9.04	1985
1986	---	---	0.99	16.5	24.1	7.82	2.54	2.12	1.16	5.18	---	---	8.55	1986
1987	---	---	7.67	55.1	22.5	6.13	4.27	6.50	3.82	2.06	---	---	13.4	1987
1988	---	---	0.849	0.819	0.272	0.061	0.420	0.141	0.455	0.645	---	---	0.458	1988
1989	---	---	0.079	28.6	1.95	0.521	0.588	0.405	0.448	0.717	---	---	4.09	1989
1990	---	---	0.316	0.488	0.253	0.489	0.360	0.317	0.448	0.302	---	---	0.370	1990
MEAN	---	---	4.00	47.8	58.2	33.3	13.3	5.44	3.31	3.72	---	---	21.1	MEAN

LOCATION - LAT 49 37 10 N LONG 100 15 00 W DRAINAGE AREA, 58 700 km² REGULATED

SOURIS RIVER AT SOURIS - STATION NO. 05NG021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	23.3 ON APR 22	0.246B ON MAR 01	94 500	1967
1968	---	7.70 ON SEP 08	0.054 ON JUN 03	45 800	1968
1969	---	314 ON APR 21	0.227B ON MAR 01	1 030 000	1969
1970	---	98.3 ON MAY 17	1.30 B ON MAR 31	659 000	1970
1971	---	43.3 ON MAY 04	1.16 ON SEP 04	296 000	1971
1972	---	100 ON APR 27	1.26 B ON MAR 01	568 000	1972
1973	---	12.0 ON MAY 26	0.294 ON APR 23	62 500	1973
1974	---	254 ON APR 28	0.708B ON MAR 23	1 100 000	1974
1975	---	269 ON MAY 11	0.850B ON APR 01	1 470 000	1975
1976	---	702 ON APR 14 *	2.03 ON OCT 21	2 460 000	1976
1977	---	3.54 ON MAY 22	0.244 ON SEP 21	21 700	1977
1978	---	26.9 B ON APR 17	0.255 ON JUL 10	124 000	1978
1979	---	189 ON MAY 26	0.093 ON SEP 16	889 000	1979
1980	---	6.26B ON APR 14	0.227B ON MAR 01	44 400	1980
1981	15.2 AT 08:02 CST ON MAR 17	12.9 ON MAR 17	0.753 ON OCT 23	70 900	1981
1982	79.5 B AT 16:41 CST ON APR 15	76.7 B ON APR 15	0.085B ON MAR 27	356 000	1982
1983	91.8 AT 13:18 CST ON APR 12 *	93.4 ON APR 12	1.72 ON OCT 24	517 000	1983
1984	27.8 AT 10:20 CST ON JUN 02	27.3 ON JUN 02	0.998B ON MAR 06	143 000	1984
1985	65.1 B AT 23:14 CST ON MAR 24	58.4 B ON MAR 25	0.178B ON MAR 10	191 000	1985
1986	31.2 AT 23:00 CST ON MAY 05	29.5 ON MAY 06	0.630 ON SEP 08	181 000	1986
1987	88.6 B AT 20:48 CST ON APR 06	77.4 B ON APR 06	0.954B ON MAR 01	284 000	1987
1988	3.78 AT 00:38 CST ON JUL 07	1.80 ON APR 05	0.001 ON JUN 13 *	9 690	1988
1989	57.9 B AT 01:12 CST ON APR 04	53.1 B ON APR 04	0.056B ON MAR 14	86 600	1989
1990	3.37 AT 03:54 CST ON MAR 31	1.86B ON MAR 31	0.056B ON MAR 03	7 840	1990
				446 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOURIS RIVER AT WAWANESA - STATION NO. 05NG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	2.27	---	---	---	1912
1913	0.283	---	---	27.4	28.0	4.71	1.42	1.18	1.23	1.05	0.706	0.425	---	1913
1914	0.142	0	0	14.2	19.3	6.70	4.62	2.76	1.56	0.803	0.567	0.142	4.25	1914
1915	0	0	0.057	3.41	1.91	1.41	1.13	0.124	0.846	0.949	0.429	0.057	0.860	1915
1916	0.028	0	0.057	56.0	74.5	46.6	13.7	6.16	2.38	2.24	1.69	0.566	17.0	1916
1917	0	0	0.418	23.9	29.8	14.6	3.78	1.08	0.397	0.363	0.688	0.085	6.27	1917
1918	0	0	2.08	13.0	5.90	3.01	0.766	0.589	0.350	1.04	0.923	0.514	2.35	1918
1919	0.177	0	0.271	37.5	33.2	5.34	1.80	0.523	0.297	0.311	0.227	0.028	6.64	1919
1920	0	0	0	19.6	51.6	28.0	5.27	2.02	1.29	1.14	0.566	---	---	1920
1921	---	---	---	7.07	5.54	3.50	2.88	5.36	2.12	1.38	0.731	---	---	1921
1922	---	---	0.663	36.2	30.7	13.1	3.83	2.21	1.14	0.972	1.16	---	---	1922
1923	---	---	---	46.6	57.4	40.2	16.7	13.0	3.89	2.52	2.21	---	---	1923
1924	---	---	---	---	14.0	5.81	7.95	2.08	0.935	1.37	---	---	---	1924
1925	---	---	---	48.1	39.8	28.7	8.30	2.32	1.28	1.42	---	---	---	1925
1926	---	---	---	3.21	3.11	2.22	2.82	1.41	1.21	1.26	---	---	---	1926
1927	---	---	---	42.7	57.5	79.4	52.8	17.1	10.4	8.22	7.99	---	---	1927
1928	---	---	---	43.3	42.1	24.4	32.2	28.3	13.8	5.85	3.24	---	---	1928
1929	---	---	---	12.2	6.73	8.35	2.92	0.563	1.02	0.666	0.321	---	---	1929
1930	---	---	---	35.9	16.8	5.54	2.28	0.400	0.068	0.217	---	---	---	1930
1931	---	---	---	1.14	0.337	0.144	0.088	0.002	0.001	0.001	0.001	0	---	1931
1932	0	0	0	3.56	2.56	1.17	0.698	0.092	0.009	0.104	---	---	---	1932
1933	---	---	2.80	29.8	10.4	2.57	4.26	1.48	0.774	0.112	---	---	---	1933
1934	---	---	---	14.0	2.51	0.498	0.042	0	0	0	0	0	---	1934
1935	0	0	---	4.81	2.66	2.06	20.6	4.76	0.935	0.238	0.142	0	---	1935
1936	0	0	0	24.4	2.55	0.712	0.049	0	0	0	0	0	2.28	1936
1937	0	0	0	0.714	0.301	0.421	0.057	0.123	0.001	0	0	0	0.134	1937
1938	0	0	5.64	1.07	0.347	0.107	0.023	0.002	0	0	0	0	0.608	1938
1939	0	0	3.53	8.62	0.295	0.218	0.027	0	0	---	---	---	---	1939
1940	---	---	---	---	0.378	0.058	0.016	0.033	0.020	---	---	---	---	1940
1941	---	---	---	11.7	0.980	0.354	0.090	0.045	0.415	0.674	---	---	---	1941
1942	---	---	---	---	14.1	3.47	0.915	0.580	0.895	---	---	---	---	1942
1943	---	---	---	40.6	52.0	43.3	22.3	8.27	4.59	1.91	---	---	---	1943
1944	---	---	---	5.16	9.03	9.31	35.6	8.52	8.94	4.79	---	---	---	1944
1945	---	---	---	24.1	9.83	1.95	2.11	2.51	0.566	0.500	---	---	---	1945
1946	---	---	---	24.6	2.49	0.912	0.766	0.260	1.01	1.62	---	---	---	1946
1947	---	---	---	41.4	29.2	12.2	22.4	10.6	5.01	1.52	---	---	---	1947
1948	---	---	---	---	97.0	59.7	27.1	17.2	4.74	3.25	---	---	---	1948
1949	---	---	---	116	94.0	30.4	8.23	4.03	2.35	1.83	---	---	---	1949
1950	---	---	---	35.2	77.3	71.2	26.4	19.6	10.0	6.64	---	---	---	1950
1951	---	---	---	73.7	104	60.7	17.8	3.21	4.80	4.24	---	---	---	1951
1952	---	---	---	28.4	22.3	4.22	2.57	1.93	1.10	0.140	---	---	---	1952
1953	---	---	---	10.8	16.0	23.7	30.4	30.4	6.35	3.11	6.75	1.70	---	1953
1954	3.82	3.55	4.96	10.7	9.90	28.8	48.8	22.3	8.23	16.8	11.2	6.65	14.7	1954
1955	5.25	4.47	3.29	97.4	105	78.6	44.3	16.2	9.27	9.13	4.32	1.56	31.6	1955
1956	0.619	0.642	0.578	74.9	83.9	66.8	21.7	10.1	7.45	6.47	7.51	2.88	23.6	1956
1957	1.05	0.640	5.39	9.25	10.4	9.10	5.70	5.20	3.94	2.66	3.07	2.19	4.90	1957
1958	0.396	0.932	4.16	15.4	4.58	3.20	1.44	0.504	0.481	0.653	0.280	0.023	2.63	1958
1959	0.003	0.003	2.79	3.38	0.678	0.609	0.554	0.174	0.527	1.63	3.46	1.07	1.24	1959
1960	0.853	0.757	0.590	85.4	41.7	17.2	2.35	0.800	0.954	1.10	0.728	0.353	12.7	1960
1961	0.169	0.164	0.796	3.01	1.13	0.336	0.344	0.017	0.041	0.219	0.298	0.083	0.550	1961
1962	0.039	0.046	0.062	10.7	1.37	1.55	0.563	0.726	0.820	1.27	0.284	0.217	1.47	1962
1963	0.072	0	0.928	3.27	1.26	5.93	3.56	0.572	0.664	0.610	0.575	0.161	1.47	1963
1964	0.028	0.063	0.147	13.6	13.5	2.04	4.67	0.948	2.14	3.62	0.805	0.147	3.48	1964
1965	0.135	0.081	0.098	17.0	12.9	17.0	14.6	6.09	8.37	7.57	2.84	1.65	7.38	1965
1966	1.56	1.17	20.9	23.0	30.0	13.0	4.73	2.02	0.757	0.786	0.575	0.281	8.28	1966
1967	0.252	0.192	0.720	15.3	16.9	5.31	0.682	0.220	0.084	0.662	0.639	0.201	3.43	1967
1968	0.112	0.129	3.73	1.99	0.698	0.496	0.747	1.36	5.97	5.66	1.96	0.601	1.96	1968
1969	0.470	0.608	0.490	159	168	79.9	24.6	18.7	4.03	2.14	1.94	1.80	38.6	1969
1970	1.97	1.89	1.41	32.0	85.9	84.7	50.9	15.8	3.02	2.65	2.22	0.706	23.7	1970
1971	0.434	0.892	1.57	23.0	29.5	20.0	13.2	11.1	2.22	3.27	6.19	3.24	10.4	1971
1972	2.47	2.07	19.6	74.5	75.8	25.6	20.5	7.24	4.11	4.16	6.76	0.721	20.3	1972
1973	0.451	0.898	3.24	1.73	5.25	3.80	3.54	2.06	2.14	4.39	1.04	0.631	2.45	1973
1974	0.564	0.976	1.95	121	174	119	38.8	5.77	3.27	2.43	3.94	1.98	39.5	1974
1975	1.03	0.869	1.06	48.2	212	175	86.5	22.4	10.4	26.8	24.9	12.2	52.1	1975
1976	9.01	7.47	7.50	488	286	107	38.3	20.1	11.1	3.71	2.40	1.83	81.6	1976
1977	1.50	1.08	1.74	2.18	1.96	1.06	1.13	0.498	1.04	0.828	0.610	0.616	1.19	1977
1978	0.770	0.769	0.928	25.8	13.0	2.65	4.44	6.13	4.23	0.523	0.722	0.442	5.03	1978
1979	0.485	0.822	1.58	28.5	137	118	37.1	6.23	1.62	1.03	0.861	0.251	28.0	1979
1980	0.188	0.254	0.941	6.18	4.97	1.18	0.773	1.29	1.34	3.36	3.36	1.96	2.15	1980
1981	1.24	3.64	7.59	6.78	4.52	4.11	2.22	1.98	1.84	1.56	1.65	0.591	3.13	1981
1982	0.142	0.133	1.04	40.8	57.7	26.6	3.04	3.41	4.39	6.38	8.78	1.95	12.9	1982
1983	1.81	2.41	13.7	95.9	67.1	11.7	6.07	4.92	11.7	6.44	6.22	1.26	19.1	1983
1984	0.604	1.34	4.54	7.03	20.5	17.6	3.53	2.14	1.75	2.51	2.26	1.44	5.44	1984
1985	0.490	0.237	25.2	20.3	15.8	10.8	1.73	2.65	4.61	5.05	2.16	1.65	7.59	1985
1986	1.66	1.54	13.4	18.1	30.2	8.22	2.63	2.50	0.931	5.39	2.84	1.04	7.42	1986
1987	1.19	1.19	10.1	63.2	24.3	5.49	3.91	6.58	4.68	2.29	2.27	1.62	10.6	1987
1988	0.094	0.372	1.30	2.20	0.546	0.122	0.533	0.022	0.200	0.576	0.494	0.153	0.550	1988
1989	0.110	0.058	0.029	38.6	2.73	0.510	0.333	0.312	0.294	0.554	0.581	0.122	3.64	1989
1990	0.011	0	0.900	3.36	0.505	0.569	0.742	0.215	0.226	0.392	0.585	0.267	0.647	1990
MEAN	0.817	0.847	3.62	36.0	36.3	22.1	11.4	5.26	2.85	2.76	2.58	1.14	11.6	MEAN

LOCATION - LAT 49 36 05 N DRAINAGE AREA, 61 100 km²
LONG 099 40 55 W REGULATED

REMARKS - THE SOURIS RIVER BASIN STUDY ESTIMATED FLOWS OF HISTORICAL FLOODS, 1882 AND 1904 WERE 1130 AND 566 M3/S RESPECTIVELY

SOURIS RIVER AT WAWANESA - STATION NO. 05NG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	---	---	---	1913
1914	---	42.5 ON MAY 03 30.9 ON APR 25	0 B ON FEB 01 *	134 000	1914
1915	---	8.44 ON APR 14	0 B ON JAN 01	27 100	1915
1916	---	173 ON APR 19	0 B ON FEB 01	537 000	1916
1917	---	43.0 ON APR 16	0 B ON JAN 01	198 000	1917
1918	---	21.7 ON APR 07	0 B ON JAN 01	74 000	1918
1919	---	57.8 B ON APR 07	0 B ON FEB 01	210 000	1919
1920	---	79.3 ON APR 27	0 B ON JAN 01	---	1920
1921	---	19.7 ON APR 19	---	---	1921
1922	---	27.5 ON APR 12	0 B ON MAR 01	---	1922
1923	---	167 ON APR 18	---	---	1923
1924	---	---	---	---	1924
1925	---	85.0 E ON APR 03	---	---	1925
1926	---	14.5 ON APR 20	---	---	1926
1927	---	83.8 ON JUN 08	---	---	1927
1928	---	65.1 B ON MAR 30	---	---	1928
1929	---	36.5 B ON APR 15	---	---	1929
1930	---	75.9 B ON APR 05	---	---	1930
1931	---	3.68 ON APR 11	0 B ON APR 01	---	1931
1932	---	7.65 ON APR 15	0 B ON JAN 01	---	1932
1933	---	51.0 B ON MAR 31	0 B ON MAR 01	---	1933
1934	---	32.6 B ON APR 07	0 B ON APR 01	---	1934
1935	---	39.9 ON JUL 03	0 ON JAN 01	---	1935
1936	---	68.0 B ON APR 13	0 B ON JAN 01	71 900	1936
1937	---	1.87 ON APR 16	0 ON JAN 01	4 230	1937
1938	---	34.0 B ON MAR 20	0 ON JAN 01	19 200	1938
1939	---	36.2 ON APR 03	0 ON JAN 01	---	1939
1940	---	---	---	---	1940
1941	---	---	---	---	1941
1942	---	---	---	---	1942
1943	---	---	---	---	1943
1944	---	57.8 ON MAY 15 42.2 ON JUL 18	0 B ON APR 01	---	1944
1945	---	30.6 ON APR 11	---	---	1945
1946	---	50.1 ON APR 07	---	---	1946
1947	---	57.2 ON APR 17	---	---	1947
1948	---	117 ON MAY 09	---	---	1948
1949	---	234 B ON APR 11	---	---	1949
1950	---	107 ON MAY 11	---	---	1950
1951	---	123 ON APR 28	---	---	1951
1952	---	38.5 ON MAY 02	0 ON OCT 08	---	1952
1953	---	35.7 ON AUG 18	---	---	1953
1954	---	53.2 ON JUL 26	2.55 B ON FEB 02	464 000	1954
1955	---	116 ON APR 21	1.13 B ON DEC 31	997 000	1955
1956	---	205 B ON APR 15	0.311B ON MAR 23	746 000	1956
1957	---	24.1 B ON MAR 23	0.198B ON FEB 02	155 000	1957
1958	---	31.1 ON APR 08	0.003B ON DEC 16	82 900	1958
1959	---	14.2 B ON MAR 27	0.003B ON JAN 01	39 200	1959
1960	263 AT 08:00 CST ON APR 12	229 ON APR 12	0.164B ON DEC 01	400 000	1960
1961	7.14 AT 19:00 CST ON APR 07	5.61 ON APR 07	0.003 ON AUG 11	17 300	1961
1962	---	65.1 B ON APR 18	0 B ON NOV 11	46 200	1962
1963	15.3 AT 23:00 CST ON JUN 29	14.2 ON JUN 30	0 B ON JAN 26	46 200	1963
1964	---	31.7 B ON APR 16	0.017B ON JAN 20	110 000	1964
1965	90.3 AT 02:30 CST ON JUL 22	75.3 B ON APR 12	0.020B ON MAR 06	233 000	1965
1966	---	77.6 B ON MAR 21	0.034B ON DEC 10	261 000	1966
1967	---	25.4 ON APR 21	0 ON SEP 09	108 000	1967
1968	8.13 AT 12:10 CST ON SEP 14	8.07 ON SEP 14	0 B ON FEB 18	61 900	1968
1969	326 AT 12:00 CST ON APR 22	323 ON APR 22	0.227B ON APR 05	1 220 000	1969
1970	143 AT 22:07 CST ON APR 26	130 ON APR 26	0.476B ON DEC 31	747 000	1970
1971	59.7 AT 13:15 CST ON APR 16	50.7 ON APR 16	0.351B ON FEB 13	329 000	1971
1972	99.4 AT 24:00 CST ON APR 30	99.4 ON APR 30	0.510B ON DEC 21	642 000	1972
1973	11.9 AT 13:53 CST ON MAY 27	11.8 ON MAY 27	0.405B ON JAN 10	77 200	1973
1974	---	345 A ON APR 19	0.345B ON JAN 21	1 250 000	1974
1975	259 AT 00:35 CST ON MAY 12	259 ON MAY 12	0.804B ON FEB 10	1 640 000	1975
1976	765 B AT 00:00 CST ON APR 11 *	742 B ON APR 11 *	1.45 ON DEC 03	2 580 000	1976
1977	4.45 AT 22:30 CST ON MAY 04	3.23 ON MAY 05	0.153B ON NOV 26	37 500	1977
1978	48.7 AT 09:34 CST ON APR 06	41.3 ON APR 06	0.173B ON DEC 11	159 000	1978
1979	185 AT 04:30 CST ON MAY 26	181 ON MAY 26	0.225B ON DEC 14	882 000	1979
1980	12.3 AT 16:00 CST ON APR 08	10.7 B ON APR 07	0.092B ON JAN 05	68 000	1980
1981	14.5 AT 15:35 CST ON MAR 18	12.0 B ON MAR 18	0.207B ON DEC 31	98 900	1981
1982	125 B AT 02:40 CST ON APR 15	116 B ON APR 15	0.082B ON FEB 19	406 000	1982
1983	143 B AT 20:17 CST ON APR 07	121 B ON APR 09	0.196B ON DEC 26	602 000	1983
1984	28.8 AT 07:27 CST ON JUN 03	28.7 ON JUN 03	0.206B ON JAN 25	172 000	1984
1985	144 B AT 01:30 CST ON MAR 26	136 B ON MAR 26	0.183B ON FEB 24	239 000	1985
1986	66.0 AT 06:36 CST ON MAY 07	60.9 ON MAY 07	0.613 ON SEP 09	234 000	1986
1987	102 B AT 11:57 CST ON APR 07	96.3 B ON APR 07	0.424B ON DEC 31	333 000	1987
1988	6.66B AT 20:50 CST ON APR 05	4.59B ON APR 05	0.001 ON JUN 30	17 400	1988
1989	128 B AT 01:58 CST ON APR 05	102 B ON APR 05	0.008B ON MAR 14	115 000	1989
1990	26.2 B AT 16:22 CST ON APR 02	20.8 B ON APR 02	0 B ON FEB 01	20 400	1990
				368 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOURIS RIVER NEAR COULTER - STATION NO. 05NF016

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0.670	0.024	0.112	0.468	0.418	0.483	0.507	0.455	0.495	0.585	---	1977
1978	0.600	0.564	0.360	17.8	7.71	1.63	6.14	7.08	4.47	0.602	0.523	0.562	4.02	1978
1979	0.715	1.35	4.28	23.9	161	104	28.5	5.40	0.855	0.678	0.165	0.003	27.8	1979
1980	0.169	1.18	0.861	3.64	4.38	1.07	0.988	1.12	1.30	3.57	2.98	2.15	1.95	1980
1981	1.16	0.863	4.54	7.36	3.73	4.67	1.82	1.21	1.11	1.00	0.825	0.071	2.37	1981
1982	0	0	0	27.7	50.5	17.8	3.30	3.68	4.79	6.94	6.00	1.70	10.4	1982
1983	1.61	3.19	20.8	67.4	50.1	6.44	6.10	5.10	13.4	6.54	3.46	0.893	15.4	1983
1984	0.727	0.989	4.20	3.70	24.2	13.2	4.04	2.40	1.43	1.52	2.09	0.641	4.95	1984
1985	0.252	0.158	6.23	8.56	14.2	7.95	1.60	0.933	0.749	2.63	1.35	1.38	3.85	1985
1986	1.20	0.887	1.99	13.8	17.3	4.52	1.16	1.18	1.75	5.58	1.39	0.708	4.30	1986
1987	0.841	0.922	7.62	39.6	16.5	5.74	3.57	6.62	2.73	1.78	2.99	0.484	7.44	1987
1988	0.744	0.699	0.125	0.060	0.003	0.732	0.859	0.859	0.819	0.701	0.098	0	0.474	1988
1989	0	0	0	16.1	1.70	0.685	1.08	0.678	0.670	0.764	0.347	0.002	1.82	1989
1990	0	0	0.058	0.052	0.064	0.623	0.667	0.628	0.209	0.443	0.219	0.010	0.249	1990
MEAN	0.617	0.831	3.70	16.4	25.1	12.1	4.30	2.67	2.48	2.37	1.79	0.664	6.54	MEAN

LOCATION - LAT 49 05 27 N LONG 100 57 12 W DRAINAGE AREA, 44 000 km² REGULATED

SOURIS RIVER NEAR COULTER - STATION NO. 05NF016

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	1.61 B ON MAR 14	---	---	1977
1978	32.0 AT 11:41 CST ON APR 28	31.4 ON APR 28	0.241B ON MAR 10	127 000	1978
1979	204 AT 13:30 CST ON MAY 21 *	196 ON MAY 21 *	0 B ON DEC 17 *	876 000	1979
1980	7.96 AT 17:16 CST ON APR 29	7.43 ON APR 25	0 B ON JAN 01	61 700	1980
1981	11.3 AT 01:16 CST ON MAR 13	10.8 B ON MAR 13	0 B ON DEC 24	74 600	1981
1982	67.0 AT 10:27 CST ON APR 29	65.7 ON APR 29	0 B ON JAN 01	328 000	1982
1983	76.4 AT 12:21 CST ON MAY 04	75.5 ON MAY 04	0.335 ON OCT 19	487 000	1983
1984	29.7 AT 09:57 CST ON MAY 30	29.5 ON MAY 30	0.105 ON APR 26	156 000	1984
1985	18.4 B AT 10:17 CST ON APR 27	17.9 ON APR 27	0.002B ON FEB 14	122 000	1985
1986	22.1 AT 17:53 CST ON MAY 09	19.5 ON MAY 09	0.124B ON MAR 24	116 000	1986
1987	47.5 AT 02:36 CST ON APR 15	47.2 ON APR 15	0.083B ON DEC 07	235 000	1987
1988	1.25 AT 03:56 CST ON SEP 12	1.18 ON SEP 12	0 ON APR 13	15 000	1988
1989	38.7 B AT 23:30 CST ON APR 09	37.5 ON APR 10	0 B ON JAN 01	57 500	1989
1990	0.980 AT 12:53 CST ON AUG 15	0.795 ON AUG 07	0 B ON JAN 01	7 870	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		206 000	MEAN

SOURIS RIVER NEAR LAUDER - STATION NO. 05NG025

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1983	---	---	17.5	73.4	57.0	9.33	6.34	4.70	12.2	5.72	---	---	23.2	1983
1984	---	---	3.56	4.46	22.3	14.6	3.34	2.23	1.41	2.12	---	---	6.76	1984
1985	---	---	12.7	13.5	14.9	8.98	1.22	2.87	3.69	4.70	---	---	7.80	1985
1986	---	---	9.19	15.6	23.4	5.68	4.01	4.09	1.40	5.20	---	---	8.08	1986
1987	---	---	8.39	52.5	20.3	4.68	3.72	6.18	3.14	1.90	---	---	12.5	1987
MEAN	---	---	10.3	31.9	27.6	8.65	3.33	3.61	4.37	3.93	---	---	11.7	MEAN

LOCATION - LAT 49 24 00 N LONG 100 45 37 W DRAINAGE AREA, 51 700 km² REGULATED

SOURIS RIVER NEAR LAUDER - STATION NO. 05NG025

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1983	91.1 AT 05:16 CST ON APR 11 *	90.6 ON APR 11 *	0.500 ON OCT 23	490 000	1983
1984	27.2 AT 11:34 CST ON MAY 31	27.0 ON MAY 31	0.835 ON MAY 01	143 000	1984
1985	42.2B AT 20:26 CST ON MAR 25	40.0B ON MAR 26	0.450B ON MAR 01 *	165 000	1985
1986	28.5 AT 10:14 CST ON MAY 19	28.5 ON MAY 19	0.569B ON MAR 02	171 000	1986
1987	61.0 AT 13:52 CST ON APR 13	60.8 ON APR 13	1.31 ON OCT 28	265 000	1987
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		247 000	MEAN

SOURIS RIVER NEAR MELITA - STATION NO. 05NF009

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	0.005	0.047	0.025	4.53	1.54	0.677	0.586	0.555	---	---	0.986	1963
1965	---	---	0.028	3.61	11.8	17.8	5.30	6.11	7.34	6.18	---	---	7.25	1965
1966	---	---	4.76	18.7	24.9	5.77	1.94	1.01	0.543	0.565	---	---	7.22	1966
1967	---	---	0.131	9.63	14.0	3.24	0.654	0.466	0.470	0.733	---	---	3.56	1967
1968	---	---	0.310	0.233	0.148	0.422	0.421	0.829	6.23	5.09	---	---	1.70	1968
1969	---	---	0.172	139	138	51.0	15.0	14.8	1.24	0.866	---	---	44.7	1969
1970	---	---	1.05	19.8	64.9	80.1	36.9	10.2	0.228	0.406	---	---	26.6	1970
1971	---	---	1.56	22.7	38.4	11.6	9.48	6.71	1.51	2.91	---	---	12.1	1971
1972	---	---	17.0	77.7	55.9	23.5	17.6	3.27	2.86	3.98	---	---	25.1	1972
1973	---	---	1.32	0.570	5.44	1.75	3.70	1.07	2.21	3.28	---	---	2.43	1973
1974	---	---	2.35	89.1	137	100	27.7	3.39	2.14	1.78	---	---	45.2	1974
1975	---	---	---	---	---	---	---	10.9	5.16	21.0	---	---	---	1975
1976	---	---	12.5	358	212	73.8	25.5	16.7	8.79	1.78	---	---	87.9	1976
1977	---	---	0.856	0.186	0.040	0.480	0.534	0.508	0.585	0.490	---	---	0.460	1977
1978	---	---	0.429	16.9	8.21	1.65	6.06	6.41	3.57	0.743	---	---	5.47	1978
MEAN	---	---	3.03	54.0	50.8	26.8	10.9	5.67	2.90	3.36	---	---	19.3	MEAN

LOCATION - LAT 49 10 20 N LONG 101 01 48 W DRAINAGE AREA, 48 100 km² REGULATED

SOURIS RIVER NEAR MELITA - STATION NO. 05NF009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	13.8 AT 02:45 CST ON JUN 25	13.4 ON JUN 25	0 ON MAR 01 *	20 900	1963
1965	23.8 AT 17:30 CST ON JUN 26	23.7 ON JUN 26	0.028B ON MAR 01	153 000	1965
1966	---	30.6 A ON MAY 04	0.255 ON OCT 31	154 000	1966
1967	24.9 AT 18:30 CST ON APR 19	24.3 ON APR 19	0 B ON MAR 01	77 400	1967
1968	---	7.53 ON SEP 09	0 A ON APR 22	36 000	1968
1969	---	306 A ON APR 17	0.028B ON MAR 16	947 000	1969
1970	95.1 AT 23:51 CST ON JUN 07	94.3 ON JUN 05	0.008 ON OCT 06	564 000	1970
1971	---	44.7 A ON MAY 06	1.06 ON OCT 08	256 000	1971
1972	106 AT 17:07 CST ON APR 21 *	104 ON APR 21	1.42 B ON MAR 01	532 000	1972
1973	11.8 AT 08:07 CST ON MAY 24	11.7 ON MAY 23	0.467 ON APR 17	51 400	1973
1974	---	251 A ON APR 25	0.487 ON OCT 22	958 000	1974
1975	---	---	---	---	1975
1976	---	510 B ON APR 12 *	0.142 ON OCT 10	1 860 000	1976
1977	---	1.61B ON MAR 14	0.007E ON MAY 03	9 740	1977
1978	26.5 AT 17:05 CST ON APR 28	28.3 ON APR 28	0.334B ON MAR 10	116 000	1978
				410 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOURIS RIVER NEAR WESTHOPE - STATION NO. 05NF012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1929	---	---	---	---	---	---	---	0.380	0.185	0.234	---	---	---	1929
1930	---	---	---	26.1	11.0	2.87	1.16	0.154	0.245	0.314	0.429	0.142	---	1930
1931	0.014	0.014	0.028	1.66	0.636	0.136	0.063	0	0	0.149	0.224	0.057	0.247	1931
1932	0.028	0.028	0.148	2.09	1.71	0.744	0.356	0.059	0	0	0.239	0.057	0.454	1932
1933	0.028	0.028	3.97	24.8	6.21	5.19	5.92	1.56	0.291	0.174	0.397	0.085	4.05	1933
1934	0.028	0.028	2.02	8.33	1.59	0.131	0.022	0	0	0	0	0	1.01	1934
1935	0	0	0.196	1.57	2.13	0.506	4.61	1.94	0.222	0.009	0	0	0.944	1935
1936	0	0	0	0.909	0	0.218	0.104	0	0	0	0	0	0.101	1936
1937	0	0	0	0.052	0	0	0	0	0	0	0	0	0.004	1937
1938	0	0	0.004	0.001	0	0.211	0	0.222	0.008	0	0	0	0.037	1938
1939	0	0	0.001	0.006	0	0.239	0	0.130	0.034	0.290	0	0	0.059	1939
1940	0	0	0	0.007	0.028	0.020	0.067	0.073	0.069	0.084	0.001	0	0.029	1940
1941	0	0	0	0	0.003	0.180	0.207	0.328	0.467	0.244	0.019	0	0.121	1941
1942	0	0	0.017	11.6	7.15	0.727	0.521	0.793	0.660	0.712	0.027	0	1.85	1942
1943	0	0	0.004	17.4	59.6	33.2	23.4	3.39	2.42	1.40	0.339	0.004	11.9	1943
1944	0	0.167	0.649	5.26	7.54	8.33	36.6	3.48	9.70	2.67	1.90	3.98	6.73	1944
1945	3.32	2.04	4.45	21.4	4.76	0.741	0.540	2.52	0.516	0.532	0.019	0	3.39	1945
1946	0	0	0.056	9.09	0.687	0.545	0.444	0.585	1.80	0.341	0.015	0	1.12	1946
1947	0.008	0.029	0.029	29.5	19.2	5.52	10.8	8.11	2.08	0.303	0.287	0.023	6.34	1947
1948	0.017	0.006	0.013	25.2	62.1	48.0	9.63	7.01	1.21	0.565	1.33	1.89	13.1	1948
1949	0.913	0.381	0.213	91.3	41.2	17.3	1.12	1.12	0.918	0.335	0.028	0.036	12.9	1949
1950	0.071	0.085	0.174	20.8	58.6	37.0	10.5	4.23	1.76	0.790	0.377	1.34	11.4	1950
1951	3.43	4.89	2.76	52.2	70.6	43.0	6.81	0.754	4.12	2.07	1.85	4.59	16.4	1951
1952	1.11	0.788	3.36	22.2	15.3	0.278	2.66	2.16	0.387	0.096	0.697	1.21	4.19	1952
1953	0.476	0.387	0.705	5.20	13.3	22.5	34.3	28.7	4.09	4.40	5.00	2.98	10.3	1953
1954	3.97	3.83	4.32	9.84	6.75	22.3	44.2	11.0	2.02	12.7	5.17	2.85	10.8	1954
1955	1.92	1.96	2.03	59.8	57.4	42.4	17.6	7.95	3.45	3.75	0.207	0.079	16.6	1955
1956	0.356	0.425	1.49	29.1	67.5	28.9	9.63	4.60	3.99	3.22	5.28	1.56	13.0	1956
1957	1.27	0.755	1.07	0.500	3.94	2.32	2.06	0.749	0.655	0.632	3.33	1.45	1.81	1957
1958	0.501	0.400	0.011	0.198	0.76	2.43	0.931	0.813	0.604	0.417	0.029	0.003	0.675	1958
1959	0.003	0.001	0.027	0.008	0.021	0.704	0.681	0.543	0.465	0.571	1.82	0.414	0.438	1959
1960	0.562	0.567	1.65	46.2	23.9	12.8	0.585	0.388	0.936	0.668	0.145	0.059	7.32	1960
1961	0.002	0.014	0.154	0.150	0.292	0.585	0.544	0.303	0.276	0.314	0.096	0.029	0.231	1961
1962	0	0	0	0.055	0.140	0.136	0.185	0.294	0.294	0.480	0.010	0.003	0.134	1962
1963	0.003	0.003	0.008	0.003	0.011	4.55	1.22	0.614	0.576	0.654	0.041	0	0.638	1963
1964	0	0	0.003	0.011	4.02	1.25	2.99	0.482	2.81	2.34	0.006	0.003	1.17	1964
1965	0.002	0.003	0.003	0.423	10.2	17.6	4.73	6.58	7.59	5.78	2.00	1.37	4.70	1965
1966	1.38	1.17	3.00	13.4	21.9	4.93	2.03	1.11	0.638	0.625	0.194	0.003	4.22	1966
1967	0.001	0	0.007	9.49	13.4	2.58	0.729	0.640	0.500	0.713	0.040	0.002	2.35	1967
1968	0	0	0.006	0.010	0.160	0.688	0.558	0.626	3.61	4.41	0.888	0.637	1.05	1968
1969	0.371	0.109	0.172	91.8	128	50.8	11.0	14.2	0.958	0.681	0.704	2.18	25.2	1969
1970	2.46	1.61	1.22	14.2	66.4	77.2	33.7	8.99	0.568	0.565	0.334	0.093	17.3	1970
1971	0.859	1.62	1.67	19.9	12.5	9.44	9.82	8.43	0.949	2.87	6.25	2.77	8.13	1971
1972	2.16	1.67	8.78	67.5	45.6	21.2	16.7	2.79	2.71	4.23	6.39	0.641	15.0	1972
1973	0.526	1.23	0.743	0.130	5.83	1.28	3.94	0.915	2.30	2.98	0.685	0.672	1.78	1973
1974	0.651	1.63	2.57	68.6	121	91.6	22.0	2.87	2.12	1.67	2.95	0.552	26.6	1974
1975	0.624	0.645	1.03	29.8	155	119	47.6	6.74	2.50	13.4	10.2	5.68	32.9	1975
1976	5.41	5.38	12.5	251	169	62.9	22.1	14.9	6.46	1.13	0.996	1.47	45.9	1976
1977	1.11	0.825	0.560	0.018	0.005	0.609	0.595	0.589	0.593	0.595	0.529	0.732	0.362	1977
1978	0.686	0.744	0.476	15.3	8.49	1.60	6.09	6.20	3.79	0.799	0.812	0.958	3.84	1978
1979	1.05	2.16	3.04	22.6	141	89.8	23.1	4.35	0.684	0.811	0.179	0.017	24.2	1979
1980	0.202	1.15	0.663	2.82	3.58	0.699	0.766	0.774	1.23	3.30	3.17	2.07	1.70	1980
1981	1.19	0.751	4.60	7.01	3.69	4.43	1.36	1.20	1.03	0.921	0.833	0.029	2.25	1981
1982	0	0	0	28.4	49.6	18.5	2.96	3.84	4.20	6.57	7.29	1.59	10.3	1982
1983	1.66	3.31	22.1	68.3	46.6	6.41	5.65	5.41	11.4	4.98	3.23	0.930	15.0	1983
1984	0.552	0.749	3.48	2.63	24.6	13.9	5.81	2.99	1.27	1.30	1.77	0.538	4.99	1984
1985	0.147	0.089	4.46	8.34	13.2	8.00	1.70	0.935	0.603	2.46	1.32	1.35	3.56	1985
1986	1.15	1.03	1.51	12.6	16.5	4.99	3.15	1.15	1.77	5.34	1.26	0.719	4.28	1986
1987	0.764	0.796	5.36	43.8	14.1	4.75	3.11	6.12	2.37	1.68	2.42	0.433	7.15	1987
1988	0.853	0.729	0.120	0.052	0.138	0.834	0.624	0.630	0.669	0.574	0.089	0	0.441	1988
1989	0	0	0.005	13.9	1.69	0.671	1.07	0.647	0.650	0.733	0.239	0.007	1.62	1989
1990	0.003	0.004	0.010	0.009	0.061	0.680	0.725	0.696	0.678	0.694	0.174	0.002	0.313	1990
MEAN	0.697	0.737	1.79	21.5	26.9	15.8	7.54	3.22	1.79	1.78	1.39	0.792	7.08	MEAN

LOCATION - LAT 48 59 47 N DRAINAGE AREA, 43 700 km² INTERNATIONAL GAUGING STATION
LONG 100 57 29 W REGULATED

SOURIS RIVER NEAR WESTHOPE - STATION NO. 05NF012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1929	---	---	---	---	1929
1930	---	---	---	---	1930
1931	---	---	---	---	1931
1932	---	3.34 B ON APR 06	0 ON JUL 20	7 800	1932
1933	---	4.19 ON MAY 04	0 ON AUG 17	14 400	1933
1934	---	32.0 ON APR 17	0.028B ON JAN 01	128 000	1934
1935	---	14.8 ON APR 07	0 ON JUL 27	31 800	1935
1936	---	7.90 ON JUL 07	0 ON JAN 01	29 800	1936
1937	---	3.94 ON APR 14	0 ON JAN 01	3 200	1937
1938	1.44 AT 12:00 CST ON JUN 18	0.255 ON APR 11	0 ON JAN 01	136	1938
1939	0.821 ON OCT 23	1.19 ON JUN 16	0 ON JAN 01	1 180	1939
1940	---	0.765 ON OCT 21	0 ON JAN 01	1 850	1940
1941	1.02 AT 06:00 CST ON JUN 12	0.396 ON OCT 13	0 ON JAN 01	925	1941
1942	31.1 AT 19:30 CST ON APR 21	0.708 ON SEP 08	0 ON JAN 01	3 820	1942
1943	---	28.3 ON APR 22	0 B ON JAN 01	58 100	1943
1944	---	61.4 ON MAY 22	-0.991 ON APR 08 *	374 000	1944
1945	---	56.6 ON JUL 09	0 B ON JAN 06	213 000	1945
1946	---	29.4 ON MAR 31	0 B ON NOV 16	107 000	1946
1947	---	17.0 ON APR 08	0 B ON JAN 01	35 400	1947
1948	---	51.0 ON APR 19	0 ON JAN 01	200 000	1948
1949	181 ON APR 18	82.1 ON APR 26	0 ON JAN 17	414 000	1949
1950	75.0 AT 22:00 CST ON MAY 17	178 ON APR 18	0.028 ON NOV 01	405 000	1950
1951	---	74.5 ON MAY 17	0.057B ON JAN 01	358 000	1951
1952	---	87.8 ON APR 29	0.054 ON NOV 07	518 000	1952
1953	43.9 AT 13:00 CST ON AUG 13	40.2 ON APR 24	0.054 ON OCT 31	132 000	1953
1954	50.4 AT 13:00 CST ON JUL 13	43.6 ON AUG 13	0.085E ON SEP 18	324 000	1954
1955	99.1 AT 20:00 CST ON APR 14	49.8 ON JUL 14	0.623 ON SEP 21	341 000	1955
1956	86.1 AT 23:00 CST ON MAY 21	97.1 ON APR 14	0.028E ON DEC 06	522 000	1956
1957	---	83.0 ON MAY 22	0.227E ON JAN 01	412 000	1957
1958	15.9 AT 15:00 CST ON MAY 12	7.59 ON JUN 14	0.099 ON APR 21	57 200	1958
1959	5.30 ON JUN 03	5.72 ON MAY 12	0 ON MAR 06	21 300	1959
1960	60.0 AT 09:00 CST ON APR 23	5.30 ON NOV 06	0.001E ON FEB 01	13 800	1960
1961	---	57.8 ON APR 23	0 ON DEC 26	232 000	1961
1962	5.89 AT 10:30 CST ON AUG 07	0.736 ON JUN 02	0 ON JAN 01	7 290	1962
1963	17.0 AT 11:30 CST ON JUN 24	0.850 ON OCT 17	0 ON JAN 01	4 230	1963
1964	---	15.0 ON JUN 23	0 ON MAR 06	20 100	1964
1965	24.5 AT 17:00 CST ON JUN 28	14.7 ON MAY 16	0 ON JAN 01	36 900	1965
1966	24.1 AT 03:00 CST ON MAY 02	24.1 ON JUN 27	0 ON JAN 11	148 000	1966
1967	25.7 AT 19:00 CST ON APR 20	24.0 ON MAY 03	0.001 ON DEC 17	133 000	1967
1968	8.27 AT 09:00 CST ON SEP 09	24.2 ON APR 20	0 ON JAN 31	74 200	1968
1969	178 AT 14:00 CST ON APR 22	7.84 ON SEP 08	0 ON JAN 01	33 100	1969
1970	88.3 AT 07:00 CST ON JUN 06	176 ON APR 22	0.028B ON MAR 16	794 000	1970
1971	38.2 AT 02:00 CST ON APR 30	89.1 ON JUN 06	0.045 ON DEC 01	547 000	1971
1972	86.7 ON APR 20	37.9 ON APR 30	0.048 ON JAN 01	256 000	1972
1973	12.6 ON MAY 20	86.4 ON APR 17	0.510 ON DEC 12	474 000	1973
1974	159 AT 21:00 CST ON APR 25	12.4 ON MAY 20	0.011 ON APR 04	56 200	1974
1975	190 AT 07:00 CST ON MAY 07	158 ON APR 25	0.538 ON DEC 04	838 000	1975
1976	357 AT 18:00 CST ON APR 26 *	187 ON MAY 07	0.453 ON SEP 07	1 040 000	1976
1977	---	351 ON APR 26 *	0.037 ON OCT 15	1 450 000	1977
1978	24.0 AT 17:30 CST ON APR 22	1.56 B ON MAR 13	0.003 ON APR 18	17 700	1978
1979	167 AT 21:00 CST ON MAY 21	22.0 ON APR 22	0.283B ON MAR 09	121 000	1979
1980	8.04 AT 17:00 CST ON APR 24	165 ON MAY 21	0.009 ON NOV 14	764 000	1980
1981	---	7.08 ON APR 29	0.025B ON JAN 14	53 800	1981
1982	---	9.34 ON APR 24	0 ON DEC 09	71 100	1982
1983	76.5 ON APR 13	67.1 ON APR 24	0 B ON JAN 01	325 000	1983
1984	31.1 ON MAY 30	76.5 ON APR 14	0.139 ON OCT 19	473 000	1984
1985	---	31.1 ON MAY 30	0.127 ON APR 25	158 000	1985
1986	25.6 AT 19:15 CST ON MAY 05	17.8 ON APR 27	0.028 ON FEB 07	112 000	1986
1987	64.8 AT 04:45 CST ON APR 15	22.3 ON MAY 06	0.057B ON MAR 14	135 000	1987
1988	1.56 AT 10:45 CST ON JUN 01	64.0 ON APR 15	0.013 ON DEC 06	226 000	1988
1989	---	1.16 ON JUN 25	0 ON APR 17	14 000	1989
1990	1.13 ON AUG 27	36.8 B ON APR 07	0 ON JAN 01	51 100	1990
		0.793 ON MAY 31	0 B ON DEC 27	9 880	
				223 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOUTH SEAL RIVER ABOVE FOX LAKE - STATION NO. 06GA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	---	---	---	---	---	---	---	57.8	50.3	32.5	---	1965
1966	---	---	---	24.4	177	360	175	88.5	50.0	27.4	25.6	24.0	---	1966
1967	21.1	16.4	12.3	---	---	---	203	93.8	51.7	---	---	---	---	1967
1968	---	14.3	14.9	---	---	---	134	77.8	93.4	126	95.6	63.9	---	1968
1969	38.2	23.4	21.3	21.8	30.6	67.9	69.1	61.8	270	173	98.8	49.8	77.2	1969
1970	32.8	21.0	18.7	22.0	98.0	195	97.1	83.1	92.0	94.7	139	76.0	80.9	1970
1971	37.2	28.1	21.3	---	---	160	289	220	249	242	180	104	---	1971
1972	53.8	31.1	24.3	23.4	205	234	193	129	127	115	88.5	62.4	108	1972
1973	38.8	29.4	25.1	20.7	147	118	76.0	47.4	37.0	36.0	32.8	24.6	52.9	1973
1974	19.6	17.0	15.0	---	---	---	88.5	127	110	77.5	54.4	40.7	---	1974
1975	31.8	21.1	15.9	25.6	---	---	294	233	149	112	79.8	49.6	---	1975
1976	32.6	25.4	22.2	27.7	161	170	115	71.8	137	132	96.9	61.7	87.9	1976
1977	39.6	30.0	27.5	81.6	213	230	232	172	124	91.3	62.7	26.1	111	1977
1978	18.8	18.6	16.6	18.6	---	---	129	216	279	205	108	53.1	---	1978
1979	27.6	16.0	10.6	10.8	---	---	92.1	72.3	72.8	94.4	62.9	38.8	---	1979
1980	24.6	16.7	13.0	30.5	122	175	123	279	341	192	107	50.8	123	1980
1981	28.3	25.9	24.9	24.6	125	146	72.0	36.0	37.4	38.8	35.3	19.8	51.3	1981
1982	12.7	10.0	8.74	8.77	143	199	105	63.0	79.0	61.4	36.7	27.0	63.1	1982
1983	22.0	18.6	15.0	12.7	19.5	---	164	122	357	258	128	64.3	---	1983
1984	45.6	33.8	23.5	78.8	216	186	110	85.7	121	79.3	51.6	34.7	89.0	1984
1985	24.8	20.6	19.0	17.9	73.7	186	78.7	53.1	43.7	36.7R	26.3R	18.6R	49.9 R	1985
1986	14.3	11.9	10.6	10.0	---	---	260	207	132	80.3	49.6	35.7	---	1986
1987	29.7	25.8	22.0	19.8	86.1	161	105	57.1	61.0	53.6	45.7	31.2	58.2	1987
1988	23.2	20.0	18.5	17.7	129	257	143	80.7	40.0	29.3	23.8	21.3	67.0	1988
1989	20.7	19.3	17.7	16.2	---	---	163	94.9	63.3	52.7	35.5	18.5	---	1989
1990	15.7	16.5	16.9	17.5	45.7	260	195	101	63.0	62.7	50.0	33.4	73.3	1990
MEAN	28.5	21.3	18.2	25.2	124	194	148	115	127	101 R	70.2R	42.5R	78.1 R	MEAN

LOCATION - LAT 58 08 35 N DRAINAGE AREA, 13 000 km²
LONG 098 13 40 W NATURAL FLOW

R - REVISED SINCE JAN 01 1989

SOUTH SEAL RIVER ABOVE FOX LAKE - STATION NO. 06GA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	---	---	---	1965
1966	---	532 ON JUN 03 *	---	---	1966
1967	---	---	---	---	1967
1968	---	---	---	---	1968
1969	---	323 ON SEP 07	21.0 B ON FEB 28	2 430 000	1969
1970	---	244 ON JUN 05	16.7 B ON MAR 03	2 550 000	1970
1971	374 AT 18:07 CST ON JUL 13	371 ON JUL 14	---	---	1971
1972	337 AT 18:17 CST ON MAY 16	328 ON MAY 16	21.5 B ON APR 11	3 400 000	1972
1973	236 AT 17:30 CST ON MAY 14	225 ON MAY 14	17.4 B ON APR 29	1 670 000	1973
1974	---	---	---	---	1974
1975	362 AT 18:03 CST ON JUL 03	360 ON JUL 03	15.2 B ON MAR 21	---	1975
1976	234 AT 13:00 CST ON MAY 21	232 ON MAY 21	21.9 B ON MAR 16	2 780 000	1976
1977	278 AT 17:36 CST ON JUL 24	276 ON JUL 22	19.9 B ON DEC 31	3 490 000	1977
1978	365 AT 14:12 CST ON AUG 25	360 ON AUG 24	18.6 B ON JAN 13	---	1978
1979	---	---	9.54B ON APR 01	---	1979
1980	504 AT 17:20 CST ON AUG 29 *	500 ON AUG 29	12.5 B ON MAR 23	3 880 000	1980
1981	245 AT 18:17 CST ON MAY 23	243 ON MAY 23	15.2 B ON DEC 31	1 620 000	1981
1982	235 AT 14:10 CST ON JUN 13	230 ON JUN 14	8.46B ON MAR 25 *	1 990 000	1982
1983	---	---	11.0 B ON MAY 12	---	1983
1984	312 ON APR 29	304 ON APR 29	15.4 B ON APR 10	2 810 000	1984
1985	---	243E ON JUN 04	15.9 B ON DEC 04	1 570 000	1985
1986	---	---	9.98B ON APR 08	---	1986
1987	---	191E ON JUN 02	17.7 B ON APR 21	1 840 000	1987
1988	293 AT 18:10 CST ON JUN 10	291 ON JUN 08	17.6 B ON APR 13	2 120 000	1988
1989	---	---	15.4 B ON MAY 03	---	1989
1990	---	289 ON JUN 23	15.4 B ON JAN 08	2 310 000	1990
				2 460 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOUTH TOBACCO CREEK NEAR MIAMI - STATION NO. 05OF017

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	---	---	---	---	---	---	---	---	---	1963
1964	---	---	0	0.634	0.062	0.030	0.040 0.027	0 0.033	0 0.365	0 0.039	---	---	0.146	1964
1965	---	---	0	1.17	0.414	0.080	0.023	0	0.010	0.007	---	---	0.211	1965
1966	---	---	0.760	0.784	0.729	0.054	0.169	0.009	0	0	---	---	0.316	1966
1967	---	---	0.200	1.46	0.296	0.022	0.080	0	0	0	---	---	0.255	1967
1968	---	---	0.096	0.070	0.430	0.051	0.643	1.45	0.306	0.156	---	---	0.403	1968
1969	---	---	0	2.20	0.254	0.465	0.415	0.046	0.003	0.011	---	---	0.419	1969
1970	---	---	0	2.65	1.67	0.129	0.018	0	0	0	---	---	0.554	1970
1971	---	---	0	1.58	0.105	0.177	0.159	0.001	0.135	0.304	---	---	0.304	1971
1972	---	---	0.837	1.38	0.208	0.026	0.007	0.001	0	0	---	---	0.305	1972
1973	---	---	0.119	0.025	0.004	0.007	0.016	0.001	0	0	---	---	0.025	1973
1974	---	---	0	2.56	1.63	0.121	0.004	0	0	0	---	---	0.535	1974
1975	---	---	0	0.575	0.193	0.265	0.027	0	0	0	---	---	0.131	1975
1976	---	---	0.046	1.72	0.073	0.004	0	0	0	0	---	---	0.226	1976
1977	---	---	0	0.006	0.092	0.010	0	0	0	0	---	---	0.028	1977
1978	---	---	0.047	1.27	0.321	0.177	0.126	0	0.108 0.034	0.008 0.005	---	---	0.245	1978
1979	---	---	0	3.42	1.21	0.255	0.029	0.007	0	0	---	---	0.608	1979
1980	---	---	0	0.303	0.002	0	0	0	0	0	---	---	0.037	1980
1981	---	0.059	0.047	0.010	0.010	0.013	0.001	0.012	0	0	---	---	0.012	1981
1982	---	---	0.112	0.302	0.024	0.004	0	0	0	0.008	---	---	0.056	1982
1983	---	---	0.421	0.841	0.031	0.048	0.003	0	0	0	---	---	0.167	1983
1984	---	---	0.105	0.051	0.091	0.127	0.002	0	0	0.002	---	---	0.047	1984
1985	---	---	0.611	0.304	0.068	0.084	0.019	0.779	0.033	0.213	---	---	0.265	1985
1986	---	---	1.55	0.983	1.20	0.089	0.112	0.004	0	0	---	---	0.495	1986
1987	---	---	0.309	0.886	0.029	0.001	0	0.017	0	0	---	---	0.154	1987
1988	---	---	0.020	0.085	0.012	0	0	0	0	0	---	---	0.014	1988
1989	---	---	0	0.436	0.016	0.037	0	0	0	0	---	---	0.060	1989
1990	---	---	0.330	0.485	0.094	0.502	0.450	0	0	0	---	---	0.231	1990
MEAN	---	0.059	0.208	0.970	0.343	0.103	0.085	0.084	0.036	0.027	---	---	0.231	MEAN

LOCATION - LAT 49 22 50 N LONG 098 14 55 W DRAINAGE AREA, 68.9 km² NATURAL FLOW

REMARKS - FORMERLY PUBLISHED UNDER STA. NO.05OB026. 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE .516 AND O M3/S OCCURRED IN FEB

SOUTH TOBACCO CREEK NEAR MIAMI - STATION NO. 05OF017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	---	---	1963
1964	13.1 ON SEP 01	5.47 ON SEP 01	0 ON JUL 31 * 0 ON MAR 01	3 100	1964
1965	---	7.93 B ON APR 13	OB ON MAR 01	4 460	1965
1966	14.8 AT 01:30 CST ON MAY 05	8.35 ON MAY 05	OB ON MAR 01	6 090	1966
1967	24.4 AT 15:00 CST ON APR 20	15.0 ON APR 20	OB ON MAR 01	5 390	1967
1968	24.6 AT 07:30 CST ON AUG 24	18.6 ON AUG 24	OB ON MAR 01	8 540	1968
1969	---	10.3 B ON APR 12	OB ON MAR 01	8 860	1969
1970	13.4 AT 03:50 CST ON APR 29	12.8 ON APR 29	0 ON MAR 01	11 700	1970
1971	---	11.4 B ON APR 08	0 ON MAR 01	6 430	1971
1972	---	6.06 B ON APR 09	OB ON MAR 01	6 460	1972
1973	---	0.255B ON MAR 11	OB ON MAR 01	458	1973
1974	17.9 AT 01:12 CST ON MAY 21	14.9 ON APR 17	OB ON MAR 01	11 300	1974
1975	14.2 AT 14:20 CST ON JUN 2b	4.11 ON JUN 28	OB ON MAR 01	2 770	1975
1976	9.94 AT 23:27 CST ON APR 04	6.20 ON APR 05	OB ON MAR 01	4 790	1976
1977	1.70 AT 06:05 CST ON MAY 18	0.923 ON MAY 18	0 ON MAR 01	588	1977
1978	11.6 AT 02:25 CST ON MAY 26	8.55 ON APR 06	OB ON MAR 01	5 180	1978
1979	---	28.0 E ON APR 19 *	OB ON MAR 01	12 900	1979
1980	2.05 AT 23:39 CST ON APR 06	1.50 ON APR 05	OB ON MAR 01	791	1980
1981	1.30 AT 06:45 CST ON JUN 24	0.267E ON MAR 15	0 ON MAR 01	249	1981
1982	3.62 AT 23:07 CST ON APR 11	2.42 ON APR 14	OB ON MAR 01	1 180	1982
1983	11.2 AT 20:57 CST ON MAR 30	4.42 ON APR 07	OB ON MAR 01	3 520	1983
1984	3.60 AT 03:30 CST ON JUN 22	1.09 ON JUN 22	OB ON MAR 01	994	1984
1985	23.5 AT 08:05 CST ON AUG 17	15.0 ON AUG 17	OB ON MAR 01	5 620	1985
1986	20.5 AT 04:08 CST ON MAY 05 *	16.9 ON MAY 05	OB ON MAR 01	10 500	1986
1987	6.66B AT 22:00 CST ON APR 05	5.39 B ON APR 05	OB ON MAR 01	3 250	1987
1988	---	0.375E ON APR 03	OB ON MAR 01	305	1988
1989	2.54 AT 23:52 CST ON APR 15	1.44 ON APR 14	OB ON MAR 01	1 270	1989
1990	18.3 AT 01:16 CST ON JUN 12	4.56 ON JUN 12	OB ON MAR 01	4 900	1990
				4 900	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOUTH TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF019

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	0	0.623	0.038	0.020	---	---	---	---	---	---	---	1964
1965	---	---	0	1.55	0.618	0.140	0.106	0	0.028	0	---	---	0.302	1965
1966	---	---	0.401	1.32	1.27	0.048	0.892	0.037	0	0	---	---	0.496	1966
1967	---	---	0.187	1.76	0.454	0.030	0.471	0	0	0	---	---	0.361	1967
1968	---	---	0.118	0.149	0.576	0.051	0.625	2.24	0.510	0.157	---	---	0.557	1968
1969	---	---	0	4.38	0.389	0.529	1.12	0.109	0.016	0.010	---	---	0.810	1969
1970	---	---	0	5.63	2.46	0.164	0.034	0	0	0	---	---	1.03	1970
MEAN	---	---	0.101	2.20	0.829	0.140	0.541	0.398	0.092	0.028	---	---	0.593	MEAN

LOCATION - LAT 49 24 55 N LONG 098 09 38 W DRAINAGE AREA, 134 km² NATURAL FLOW

SOUTH TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	---	0B ON MAR 01 *	---	1964
1965	---	13.8B ON APR 13	0B ON MAR 01	6 390	1965
1966	16.6 AT 04:30 CST ON MAY 05	12.0 ON MAY 05	0B ON MAR 01	10 500	1966
1967	---	17.4B ON APR 21	0B ON MAR 01	7 630	1967
1968	---	19.1 ON AUG 25	0B ON MAR 01	11 800	1968
1969	---	20.0 ON APR 11	0B ON MAR 01	17 100	1969
1970	26.6 AT 05:20 CST ON APR 26 *	21.1 ON APR 26 *	0B ON MAR 01	21 700	1970
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		12 500	MEAN

SPRAGUE CREEK NEAR SPRAGUE - STATION NO. 05OD031

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1928	---	---	---	---	---	---	---	---	---	0.616	0.524	0.096	---	1928
1929	0.057	0.028	0.343	1.16	1.46	1.60	0.623	0.042	0.034	0.085	0.174	---	---	1929
1930	---	---	---	2.34	10.3	2.93	5.98	0.276	0.043	0.164	0.760	---	---	1930
1931	---	---	---	6.34	2.28	0.757	0.396	0.079	0.069	0.230	---	---	---	1931
1932	---	---	---	5.34	3.92	1.09	1.11	0.257	0.421	1.09	1.52	---	---	1932
1933	---	---	---	7.50	3.87	2.08	0.072	0.013	0.026	0.055	---	---	---	1933
1934	---	---	---	0.457	0.345	0.350	0.074	0.025	0.011	0.133	---	---	---	1934
1935	---	---	---	2.03	2.42	0.864	0.861	0.940	0.414	0.255	---	---	---	1935
1936	---	---	---	4.93	3.16	0.680	0.037	0.009	0.008	0.038	0.033	---	---	1936
1937	---	---	---	3.48	8.01	2.51	8.93	2.45	0.449	0.337	---	---	---	1937
1938	---	---	1.06	2.71	9.24	1.99	0.214	0.036	0.015	0.029	0.039	---	---	1938
1939	---	---	---	---	0.195	0.477	0.049	0.029	0.022	---	---	---	---	1939
1940	---	---	---	0.506	0.471	0.127	0.044	0.028	0.032	0.060	0.233	0.075	---	1940
1941	0.051	0.044	0.040	5.32	1.12	4.62	0.399	0.038	11.9	7.33	1.14	0.190	2.67	1941
1942	0.033	0.032	2.64	5.40	5.78	1.50	0.290	2.54	10.5	1.16	0.368	0.087	2.52	1942
1943	0.068	0.062	0.076	8.79	6.62	8.62	1.56	0.363	0.709	0.248	0.278	0.074	2.28	1943
1944	0.035	0.019	0.039	2.74	3.15	12.2	1.60	2.45	3.99	0.865	3.05	0.389	2.53	1944
1945	0.089	0.072	5.46	7.90	3.93	1.80	2.82	1.90	5.54	2.35	0.789	0.180	2.74	1945
1946	0.093	0.080	2.75	4.06	3.09	0.685	0.630	0.030	0.089	0.203	0.167	0.067	1.00	1946
1947	0.054	0.019	0.021	1.47	2.42	9.55	0.621	0.794	0.799	2.00	0.572	0.154	1.54	1947
1948	0.098	0.070	0.119	9.37	4.43	0.740	2.08	2.83	0.132	0.066	0.135	0.068	1.70	1948
1949	0.051	0.048	0.062	4.99	3.16	0.825	0.192	0.220	0.033	0.524	0.757	0.112	0.914	1949
1950	0.054	0.066	0.070	5.89	20.1	4.32	2.58	0.315	4.98	3.74	0.709	0.155	3.60	1950
1951	0.095	0.099	0.192	6.39	4.92	0.778	0.059	0.169	0.529	0.628	0.310	0.037	1.18	1951
1952	0.015	0.042	0.070	0.948	0.338	0.371	0.631	0.104	0.028	0.027	0.051	0.025	0.220	1952
1953	0.026	0.024	0.217	0.795	1.42	3.01	1.00	0.108	0.222	0.208	0.165	0.113	0.610	1953
1954	0.113	0.046	0.103	4.51	5.69	3.60	0.331	0.108	0.271	0.158	0.149	0.104	1.27	1954
1955	0.057	0.050	0.048	5.59	2.77	6.57	0.987	0.088	0.340	1.01	0.425	0.110	1.50	1955
1956	0.055	0.062	0.109	7.13	7.65	2.09	6.34	1.36	2.95	0.796	3.06	0.162	2.65	1956
1957	0.042	0.047	1.18	3.56	4.68	6.05	3.80	0.427	0.701	1.06	0.758	0.087	1.87	1957
1958	0.047	0.121	0.297	0.390	0.314	0.237	2.64	0.290	0.101	0.413	0.834	0.228	0.497	1958
1959	0.105	0.046	0.206	4.17	6.18	4.80	1.15	0.479	0.426	2.74	0.652	0.186	1.77	1959
1960	0.080	0.050	0.045	6.88	3.07	2.18	0.883	0.311	0.095	0.125	0.394	0.082	1.18	1960
1961	0.035	0.038	0.494	0.989	1.48	0.293	0.021	0.003	0.034	0.071	0.072	0.030	0.298	1961
1962	0.014	0.010	0.025	1.96	8.51	6.27	1.33	4.16	1.16	0.519	0.588	0.256	2.08	1962
1963	0.018	0.019	0.538	1.70	4.26	4.81	0.678	0.080	0.023	0.033	0.039	0.021	1.51	1963
1964	0.008	0.009	0.015	1.81	3.90	4.47	1.64	0.230	2.04	3.48	0.757	0.070	1.54	1964
1965	0.044	0.035	0.051	10.6	10.9	4.96	5.71	0.458	2.50	4.82	1.65	0.809	3.55	1965
1966	0.293	0.113	1.31	17.9	11.6	3.17	1.20	0.397	0.462	0.263	0.171	0.092	3.00	1966
1967	0.035	0.006	0.209	10.9	5.77	0.991	0.755	0.090	0.017	0.037	0.035	0.035	1.57	1967
1968	0.019	0.018	0.789	1.91	1.31	7.53	3.98	4.54	2.22	1.47	0.755	0.154	2.06	1968
1969	0.045	0.035	0.132	11.5	4.17	5.27	0.934	0.703	0.162	0.943	0.408	0.098	2.02	1969
1970	0.048	0.044	0.058	8.19	14.5	7.62	0.666	0.184	0.282	0.371	0.667	0.155	2.74	1970
1971	0.081	0.047	0.062	4.66	2.80	1.83	1.05	0.201	0.176	0.703	1.80	0.185	1.14	1971
1972	0.070	0.032	0.314	6.49	3.81	0.808	0.061	0.006	0.330	0.436	0.441	0.065	1.07	1972
1973	0.025	0.032	0.822	0.791	1.13	1.03	0.778	1.56	2.56	3.44	0.970	0.252	1.12	1973
1974	0.089	0.068	0.063	16.0	13.4	2.92	0.159	2.23	1.22	0.883	0.521	0.105	3.14	1974
1975	0.068	0.066	0.054	5.35	5.85	3.26	1.34	0.139	0.158	0.141	0.152	0.051	1.39	1975
1976	0.046	0.050	0.131	4.01	1.33	1.62	0.587	0.047	0.018	0.029	0.031	0.005	0.654	1976
1977	0.007	0.004	0.035	0.268	0.174	0.250	0.181	0.021	0.548	0.879	0.987	0.380	0.311	1977
1978	0.069	0.045	0.080	8.47	3.69	0.940	1.04	0.207	0.200	0.118	0.092	0.054	1.25	1978
1979	0.037	0.028	0.125	9.50	7.25	2.14	0.159	0.071	0.054	0.046	0.056	0.040	1.62	1979
1980	0.020	0.029	0.049	0.916	0.063	0.003	0.001	0.079	0.094	0.311	0.306	0.053	0.159	1980
1981	0.025	0.075	0.272	0.203	0.471	3.41	0.806	0.706	1.85	3.47	1.30	0.406	1.08	1981
MEAN	0.058	0.046	0.483	4.99	4.58	2.90	1.36	0.668	1.17	0.966	0.623	0.142	1.65	MEAN

LOCATION - LAT 48 59 33 N LONG 095 39 43 W DRAINAGE AREA, 455 km² NATURAL FLOW INTERNATIONAL GAUGING STATION

REMARKS - FORMERLY PUBLISHED UNDER STA. NO. 05OD003

SPRAGUE CREEK NEAR SPRAGUE - STATION NO. 05OD031

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1928	---	---	---	---	1928
1929	4.81 AT 08:00 CST ON MAY 30	4.67 ON MAY 30	---	---	1929
1930	29.4 AT 14:00 CST ON MAY 13	28.9 ON MAY 13	---	---	1930
1931	4.67 B ON APR 09	4.25 B ON APR 09	0 B ON APR 01 *	---	1931
1932	11.5 B ON APR 14	10.0 B ON APR 13	---	---	1932
1933	16.4 AT 08:00 CST ON APR 20	16.4 ON APR 20	---	---	1933
1934	0.736B AT 13:00 CST ON APR 07	0.680 ON JUN 24	0 ON AUG 08	---	1934
1935	---	---	---	---	1935
1936	---	---	---	---	1936
1937	17.3 AT 23:00 CST ON APR 20	16.9 ON APR 21	---	---	1937
1938	44.2 AT 03:00 CST ON JUL 17	41.9 ON JUL 17	---	---	1938
1939	---	---	---	---	1939
1940	0.850 AT 08:30 CST ON JUN 04	0.793 ON JUN 04	0 ON JUL 30	---	1940
1941	2.04 B ON APR 30	1.84 B ON APR 16	---	---	1941
1942	53.2 AT 10:30 CST ON SEP 26	52.4 ON SEP 26	0.003B ON DEC 31	84 200	1942
1943	58.6 AT 19:00 CST ON SEP 01	55.5 ON SEP 01	0 B ON JAN 01	79 600	1943
1944	---	22.8 ON APR 10	0.040B ON DEC 22	72 000	1944
1945	30.6 AT 19:00 CST ON JUN 06	30.0 ON JUN 07	0.011B ON FEB 09	79 900	1945
1946	30.0 AT 20:00 CST ON MAR 28	27.4 ON MAR 28	0.057B ON FEB 06	86 500	1946
1947	8.52 B ON MAR 23	8.50 B ON MAR 23	0.014 ON AUG 26	31 500	1947
1948	41.6 AT 09:00 CST ON JUN 12	39.4 ON JUN 12	0 B ON FEB 23	48 400	1948
1949	28.6 AT 01:00 CST ON APR 21	27.1 ON APR 21	0.048 ON OCT 05	53 800	1949
	11.8 AT 01:00 CST ON APR 15	11.4 ON APR 15	0.023 ON SEP 09	28 800	
1950	41.6 ON MAY 12	36.8 E ON MAY 11	0.040B ON FEB 26	114 000	1950
1951	---	11.0 ON MAY 02	0.014B ON DEC 29	37 300	1951
1952	1.95 AT 07:00 CST ON JUL 04	1.93 ON JUL 04	0.014B ON JAN 01	6 970	1952
1953	6.65 AT 23:00 CST ON JUN 03	6.20 ON JUN 04	0.023B ON JAN 17	19 200	1953
1954	14.6 AT 20:00 CST ON APR 30	14.4 ON MAY 01	0.031 ON AUG 06	39 900	1954
1955	15.8 AT 10:30 CST ON JUN 06	15.4 ON JUN 06	0.011 ON SEP 06	47 200	1955
1956	24.4 AT 22:00 CST ON JUL 05	21.8 ON JUL 06	0.042B ON JAN 27	83 800	1956
1957	11.9 AT 23:00 CST ON JUN 15	11.6 ON JUN 16	0.023B ON JAN 17	59 000	1957
1958	4.67 AT 07:00 CST ON JUL 10	4.64 ON JUL 09	0.026B ON JAN 24	15 700	1958
1959	16.8 AT 19:00 CST ON MAY 07	16.5 ON MAY 07	0.031B ON MAR 11	42 700	1959
1960	20.0 AT 17:00 CST ON APR 15	19.7 ON APR 16	0.040 ON SEP 23	55 700	1960
1961	3.26 B AT 20:10 CST ON MAR 24	2.83 B ON MAR 26	0 ON AUG 08	37 200	1961
1962	24.4 AT 03:00 CST ON MAY 25	23.9 ON MAY 25	0 B ON JAN 30	9 400	1962
1963	20.0 AT 13:00 CST ON APR 10	19.5 ON APR 10	0.003B ON JAN 31	65 600	1963
1964	13.2 AT 00:00 CST ON JUN 20	12.6 ON JUN 20	0.003B ON FEB 25	47 700	1964
1965	35.4 AT 12:00 CST ON MAY 07	34.0 ON APR 15	0.028B ON FEB 02	48 600	1965
1966	26.4 AT 02:30 CST ON APR 18	26.1 ON APR 16	0.045B ON DEC 31	112 000	1966
1967	31.1 AT 23:00 CST ON APR 22	30.0 ON APR 22	0.003B ON FEB 12	97 200	1967
1968	24.4 AT 15:00 CST ON JUN 11	23.8 ON JUN 11	0.017B ON JAN 18	49 500	1968
1969	24.6 AT 02:30 CST ON APR 13	24.3 ON APR 13	0.028B ON FEB 06	65 100	1969
1970	33.4 AT 10:00 CST ON APR 28	32.6 ON APR 28	0.037 ON SEP 06	63 800	1970
1971	9.74 ON APR 19	8.78 ON APR 20	0.040B ON FEB 16	86 500	1971
1972	13.5 AT 05:00 CST ON APR 23	13.4 ON APR 22	0.023B ON FEB 10	36 100	1972
1973	10.5 AT 03:00 CST ON SEP 26	10.4 ON SEP 26	0.014B ON JAN 09	33 900	1973
1974	72.5 ON APR 22 *	70.2 ON APR 22 *	0.016 ON JUL 29	35 400	1974
1975	13.9 AT 10:30 CST ON APR 29	13.7 ON APR 29	0.048B ON MAR 11	99 000	1975
1976	5.38 AT 05:00 CST ON JUN 29	5.24 ON JUN 29	0 B ON DEC 08	43 800	1976
1977	2.83 AT 14:30 CST ON SEP 27	2.75 ON SEP 27	0.003B ON FEB 16	20 700	1977
1978	18.5 AT 23:00 CST ON APR 19	17.9 ON APR 19	0.037B ON MAR 09	9 820	1978
1979	27.3 AT 18:30 CST ON APR 20	26.5 ON APR 22	0.020 ON SEP 21	39 400	1979
1980	5.24 AT 03:00 CST ON APR 07	4.81 B ON APR 07	0 ON JUL 10	51 200	1980
1981	8.83 AT 17:30 CST ON JUN 15	7.73 ON JUN 16	0.022B ON JAN 28	5 030	1981
				34 200	
				52 100	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

STEEPROCK RIVER NEAR MAFEKING - STATION NO. 05LF001

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	1.33	7.59	12.8	3.86	3.30	3.65	3.16	2.83	---	---	1954
1955	---	---	1.19	4.53	10.2	2.37	1.59	0.416	0.391	0.887	---	---	2.70	1955
1956	---	---	0.512	0.793	8.69	4.21	1.38	0.953	0.797	0.770	---	---	2.52	1956
1957	---	---	0.066	2.05	7.91	2.65	0.807	0.575	1.57	0.561	---	---	2.02	1957
1958	---	---	0.483	2.42	2.77	1.70	11.7	0.953	1.89	1.66	---	---	2.96	1958
1959	---	---	---	1.47	4.07	7.70	2.90	0.979	8.48	3.34	---	---	---	1959
1960	---	---	0.974	2.10	5.53	4.29	1.41	1.09	1.04	1.26	---	---	2.21	1960
1961	---	---	0.500	1.02	2.35	0.795	0.237	0.254	0.256	0.263	---	---	0.710	1961
1962	---	---	0.062	1.04	4.31	0.825	0.189	0.173	1.06	0.516	---	---	1.02	1962
1963	---	---	0.274	2.32	3.70	5.26	1.88	0.755	0.902	0.577	---	---	1.95	1963
1964	---	---	---	1.84	7.74	2.23	1.90	4.01	3.50	2.27	---	---	---	1964
1965	---	---	0.379	1.18	11.5	5.05	1.75	1.09	4.98	3.02	---	---	3.62	1965
1967	---	---	0.744	1.38	10.7	4.39	2.08	1.68	0.673	0.959	---	---	2.84	1967
1968	---	---	0.312	1.08	5.00	5.87	9.44	6.73	2.88	2.97	---	---	4.55	1968
1969	---	---	0.756	2.66	2.15	1.85	1.73	1.44	1.93	5.02	---	---	2.19	1969
1970	---	---	0.496	1.07	7.39	4.25	5.02	1.42	1.40	3.78	---	---	3.11	1970
1971	---	---	0.776	2.96	5.07	4.09	2.17	1.70	2.59	3.32	---	---	2.88	1971
1972	---	---	0.735	2.33	8.81	2.82	5.88	1.17	0.664	0.828	---	---	2.54	1972
1973	---	---	0.537	0.860	4.02	11.5	2.71	1.67	1.64	1.61	---	---	3.17	1973
1974	---	---	0.323	2.52	11.0	4.38	2.79	1.46	3.39	2.28	---	---	3.52	1974
1975	---	---	0.680	1.51	6.18	5.38	2.48	4.61	4.80	3.50	---	---	3.64	1975
1976	---	---	0.677	2.28	1.68	8.26	4.08	0.897	0.586	0.650	---	---	2.12	1976
1977	---	---	0.550	2.97	2.41	0.802	2.41	5.70	6.78	4.36	---	---	3.24	1977
1978	---	---	0.601	1.76	4.96	1.76	1.07	0.802	1.78	3.42	---	---	2.02	1978
1979	---	---	0.654	1.26	10.1	6.61	2.68	1.79	1.42	1.20	---	---	3.24	1979
1980	---	---	0.630	3.14	1.39	0.806	0.794	3.20	2.62	2.34	---	---	1.86	1980
1981	---	---	0.616	1.26	1.98	2.98	3.79	1.40	1.71	3.29	---	---	2.13	1981
1982	---	---	0.583	1.49	3.69	3.51	5.02	2.15	1.46	1.73	---	---	2.46	1982
1983	---	---	0.682	1.62	9.58	8.28	6.05	2.49	3.46	2.39	---	---	4.32	1983
1984	---	---	0.902	4.46	9.88	7.50	3.07	1.63	2.18	6.32	---	---	4.49	1984
1985	---	---	0.858	4.11	5.95	6.89	3.69	7.26	3.41	3.87	---	---	4.50	1985
1986	---	---	0.730	2.97	6.02	3.58	2.84	1.43	2.20	2.68	---	---	2.78	1986
1987	---	---	0.789	1.40	2.33	2.73	4.94	1.47	1.15	4.01	---	---	2.85	1987
1988	---	---	0.821	2.29	17.7	3.16	2.41	1.40	1.35	1.17	---	---	3.81	1988
1989	---	---	0.552	1.38	1.88	1.72	1.04	2.07	3.12	1.56	---	---	1.66	1989
1990	---	---	0.244	2.78	11.0	4.27	3.02	0.958	0.489	0.430	---	---	2.90	1990
MEAN	---	---	0.597	2.10	6.31	4.37	3.04	2.06	2.30	2.27	2.83	---	2.80	MEAN

LOCATION - LAT 52 43 40 N DRAINAGE AREA, 301 km²
LONG 101 06 45 W REGULATED SINCE 1958

STEEPROCK RIVER NEAR MAFEKING - STATION NO. 05LF001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	80.7 ON JUN 09	---	---	1954
1955	---	46.4 ON MAY 06	0.085 ON SEP 13	57 100	1955
1956	---	19.2 ON MAY 23	0.227 ON AUG 28	53 400	1956
1957	---	15.2 ON MAY 07	0.057B ON MAR 11	42 800	1957
1958	---	138 ON JUL 06 *	0.368B ON MAR 01	62 700	1958
1959	---	69.9 ON SEP 02	---	---	1959
1960	---	17.6 ON MAY 14	0.725 ON AUG 29	46 700	1960
1961	---	4.50 ON MAY 19	0.184 ON JUL 09	15 000	1961
1962	---	7.42 ON MAY 16	0 B ON MAR 01 *	21 600	1962
1963	---	12.2 ON JUN 12	0.122B ON MAR 10	41 200	1963
1964	---	60.9 ON MAY 07	---	---	1964
1965	---	83.8 B ON MAY 06	0.340B ON MAR 23	76 600	1965
1967	---	36.2 ON MAY 25	0.609 ON SEP 01	60 000	1967
1968	---	74.5 ON JUL 21	0.133B ON MAR 01	96 300	1968
1969	---	19.1 ON OCT 03	0.742 ON AUG 15	46 400	1969
1970	---	15.5 ON OCT 26	0.496B ON MAR 01	65 900	1970
1971	---	23.4 ON JUN 06	0.714 ON SEP 11	61 000	1971
1972	---	15.7 ON MAY 13	0.566 ON SEP 11	53 700	1972
1973	94.3 AT 22:44 CST ON JUN 19 *	58.6 ON JUN 19	0.476B ON MAR 01	67 100	1973
1974	52.1 AT 01:00 CST ON MAY 22	39.6 ON MAY 22	0.266B ON MAR 01	74 600	1974
1975	---	23.7 A ON SEP 19	0.572B ON APR 06	77 100	1975
1976	89.5 AT 00:35 CST ON JUN 14	56.9 ON JUN 13	0.456 ON OCT 01	44 900	1976
1977	32.6 AT 16:35 CST ON AUG 10	20.6 ON AUG 10	0.360 ON JUN 28	68 700	1977
1978	13.8 AT 20:50 CST ON MAY 03	12.1 ON MAY 03	0.521 ON AUG 31	42 800	1978
1979	49.5 AT 12:04 CST ON MAY 27	38.4 ON MAY 27	0.619B ON MAR 01	68 500	1979
1980	20.7 AT 04:36 CST ON AUG 05	11.6 ON APR 22	0.381 ON AUG 02	39 400	1980
1981	35.8 AT 10:58 CST ON JUL 16	23.3 ON JUL 16	0.428B ON MAR 01	45 100	1981
1982	67.3 AT 18:52 CST ON JUL 17	30.3 ON JUL 18	0.510B ON APR 01	52 100	1982
1983	37.7 AT 09:02 CST ON JUN 03	31.7 ON JUN 03	0.590B ON MAR 01	91 400	1983
1984	49.1 AT 04:30 CST ON MAY 17	31.4 ON MAY 17	0.857B ON MAR 01	95 100	1984
1985	90.0 ON AUG 13	51.9 E ON AUG 13	0.831B ON MAR 01	95 300	1985
1986	17.3 AT 18:17 CST ON SEP 26	12.8 ON SEP 26	0.589B ON MAR 11	58 900	1986
1987	19.0 AT 18:31 CST ON JUL 06	13.9 ON JUL 07	0.688B ON MAR 01	60 300	1987
1988	77.7E AT 18:48 CST ON MAY 01	53.0 A ON MAY 01	0.650B ON MAR 01	80 600	1988
1989	22.6 AT 01:17 CST ON AUG 29	18.6 ON AUG 29	0.514B ON MAR 06	35 200	1989
1990	27.8 AT 16:03 CST ON MAY 16	21.9 ON MAY 16	0.162B ON MAR 01	61 400	1990
				59 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

STONY CREEK NEAR BEDE - STATION NO. 05NG004

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1936	---	---	---	---	0.025	---	---	---	---	---	---	---	---	1936
1965	---	---	0	1.35	0.086	0.067	0.005	0.104	0.157	0.204	---	---	0.243	1965
1966	---	---	0.239	1.28	0.327	0.012	0.036	0	0	0	---	---	0.259	1966
1967	---	---	0	0.114	0.233	0	0	0	0	0	---	---	0.044	1967
1968	---	---	0.142	0.011	0	0	0	0	0	0	---	---	0.019	1968
1969	---	---	0	3.14	0.367	0	1.29	0.060	0	0	---	---	0.602	1969
1970	---	---	0	2.91	3.36	0.080	0	0	0	0	---	---	0.792	1970
1971	---	---	0	0.210	0.047	1.32	0.321	0	0	0	---	---	0.234	1971
1972	---	---	1.22	1.19	0.162	0.076	0	0	0	0	---	---	0.330	1972
MEAN	---	---	0.200	1.28	0.534	0.194	0.207	0.021	0.020	0.026	---	---	0.315	MEAN

LOCATION - LAT 49 27 19 N DRAINAGE AREA, 630 km²
LONG 100 57 44 W NATURAL FLOW

STONY CREEK NEAR BEDE - STATION NO. 05NG004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1936	---	---	---	---	1936
1965	---	5.27 ON APR 14	OB ON MAR 01 *	5 150	1965
1966	---	4.67 ON APR 03	OB ON MAR 01	5 480	1966
1967	---	0.968 ON MAY 04	OB ON MAR 01	922	1967
1968	---	0.991B ON MAR 24	OB ON MAR 01	408	1968
1969	---	19.9 ON APR 16 *	OB ON MAR 01	12 700	1969
1970	---	9.85 ON MAY 02	OB ON MAR 01	16 800	1970
1971	---	5.66 ON JUN 10	OB ON MAR 01	4 950	1971
1972	---	4.56 B ON MAR 23	OB ON MAR 01	6 980	1972
				6 670	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

STONY CREEK NEAR BROOMHILL - STATION NO. 05NG019

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	1.12	0.059	0.082	0.105	0.078	0.147	0.172	---	---	0.218	1965
1966	---	---	0.237	0.960	0.417	0.012	0.032	0	0	0	---	---	0.207	1966
1967	---	---	0	0.183	0.214	0	0	0	0	0	---	---	0.049	1967
1968	---	---	0.092	0.012	0	0	0	0	0	0	---	---	0.013	1968
1969	---	---	0	2.32	0.370	0.001	0.729	0.015	0	0	---	---	0.426	1969
1970	---	---	0	2.99	1.86	0.099	0.021	0	0	0	---	---	0.616	1970
1971	---	---	0	0.141	0.031	0.201	0.075	0	0	0	---	---	0.055	1971
1972	---	---	0.836	0.953	0.103	0.030	0	0	0	0	---	---	0.239	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	4.90	0.734	0.177	0.018	0	0	0	---	---	0.717	1974
1975	---	---	0	4.51	1.33	0.415	0.042	0.005	0.455	0.431	---	---	0.887	1975
1976	---	---	0	14.5	0.479	0.291	0.043	0	0	0	---	---	1.88	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0	0	0	0	0	0	0	---	---	0	1978
1979	---	---	0	0.954	0.466	0.027	0	0	0	0	---	---	0.179	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	0.011	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.525	0	0	0	0	0	0	---	---	0.064	1982
1983	---	---	0	1.14	0.083	0.003	0	0	0	0	---	---	0.151	1983
1984	---	---	0.002	0	0	0	0	0	0	0	---	---	0	1984
1985	---	---	0.340	0.202	0	0	0	0	0	0.011	---	---	0.069	1985
1986	---	---	0.411	0.182	0.455	0.001	0	0	0	0	---	---	0.132	1986
1987	---	---	0.256	0.754	0	0	0	0	0	0	---	---	0.125	1987
1988	---	---	0	0	0	0	0	0	0	0	---	---	0	1988
1989	---	---	0	0.125	0	0	0	0	0	0	---	---	0.015	1989
1990	---	---	0	0	0	0	0	0	0	0	---	---	0	1990
MEAN	---	0.011	0.084	1.40	0.254	0.052	0.041	0.004	0.023	0.024	---	---	0.232	MEAN

LOCATION - LAT 49 23 52 N DRAINAGE AREA, 460 km²
LONG 101 05 54 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.050 AND 0 M3/S OCCURRED IN FEBRUARY

STONY CREEK NEAR BROOMHILL - STATION NO. 05NG019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	5.27 ON APR 13	0B ON MAR 01 *	4 620	1965
1966	---	4.22 ON APR 03	0B ON MAR 01	4 370	1966
1967	---	0.906 ON MAY 02	0B ON MAR 01	1 050	1967
1968	---	0.906B ON MAR 24	0B ON MAR 01	279	1968
1969	---	17.0 ON APR 16	0B ON MAR 01	9 010	1969
1970	---	14.6 ON APR 30	0B ON MAR 01	13 000	1970
1971	---	1.58 ON JUN 14	0B ON MAR 01	1 170	1971
1972	---	3.11 B ON MAR 21	0B ON MAR 01	5 060	1972
1973	---	0.003B ON MAR 13	0B ON MAR 01	1.04	1973
1974	---	20.7 ON APR 18	0B ON MAR 01	15 200	1974
1975	---	16.8 ON APR 29	0B ON MAR 01	18 800	1975
1976	---	54.7 B ON APR 10 *	0B ON MAR 01	39 800	1976
1977	---	0 B ON MAR 01	0B ON MAR 01	0	1977
1978	---	0 B ON MAR 01	0B ON MAR 01	0	1978
1979	---	6.71 ON APR 25	0B ON MAR 01	3 790	1979
1980	---	0 ON MAR 01	0 ON MAR 01	0	1980
1981	---	0.002B ON MAR 01	0B ON MAR 03	0.259	1981
1982	3.43 AT 05:43 CST ON APR 15	3.13 ON APR 15	0B ON MAR 01	1 360	1982
1983	3.87 AT 20:33 CST ON APR 12 *	3.74 ON APR 24	0B ON MAR 01	3 200	1983
1984	---	0.022A ON MAR 25	0B ON MAR 01	5.96	1984
1985	1.69 AT 02:00 CST ON MAR 25	1.61 ON MAR 25	0B ON MAR 01	1 460	1985
1986	2.69 AT 12:29 CST ON MAY 09	2.45 ON MAY 09	0B ON MAR 10	2 800	1986
1987	3.59 AT 13:10 CST ON APR 03	2.78 ON APR 05	0B ON MAR 01	2 640	1987
1988	0 AT 00:01 CST ON MAR 01	0 ON MAR 01	0 ON MAR 01	0	1988
1989	2.09B AT 12:01 CST ON APR 03	1.51 B ON APR 03	0 ON MAR 01	323	1989
1990	---	0 ON MAR 01	0 ON MAR 01	0	1990
				4 920	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

STONY CREEK NEAR NEEPAWA - STATION NO. 05LL009

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.762	0.306	0.081	0.024	0	0	0.003	0.060	---	---	0.155	1959
1960	---	---	0	5.31	0.657	0.214	0.014	0	0	0.028	---	---	0.765	1960
1961	---	---	0.010	0.283	0.159	0.009	0	0	0	0	---	---	0.057	1961
1962	---	---	0	1.99	0.159	0.037	0.137	0.141	0.054	0.061	---	---	0.318	1962
1963	---	---	1.17	0.993	0.180	0.890	0.638	0.010	0.009	0.008	---	---	0.486	1963
1964	---	---	0	0.951	0.304	0.035	0.011	0.003	0.007	0.025	---	---	0.165	1964
1965	---	---	0	4.31	0.599	0.329	0.803	0.294	0.535	0.130	---	---	0.864	1965
1966	---	---	0.334	1.94	0.687	0.241	0.108	0.026	0.001	0.026	---	---	0.417	1966
1967	---	---	0.014	3.86	0.424	0.057	0.010	0	0	0.011	---	---	0.537	1967
1968	---	---	0.857	0.405	0.125	0.044	0.038	0.038	0.046	0.043	---	---	0.200	1968
1969	---	---	0.017	5.31	0.379	0.496	1.70	0.186	0.049	0.082	---	---	1.02	1969
1970	---	---	0.025	4.92	4.30	0.231	0.348	0.219	0.032	0.076	---	---	1.26	1970
1971	---	---	0	1.92	0.258	2.62	0.906	0.043	0.031	0.160	---	---	0.733	1971
1972	---	---	0.101	3.51	0.680	0.077	0.033	0.015	0.017	0.049	---	---	0.552	1972
1973	---	---	0.233	0.150	0.116	0.042	0.008	0.006	0.173	0.068	---	---	0.099	1973
1974	---	---	0.054	3.95	2.38	0.176	0.015	0.002	0.018	0.032	---	---	0.821	1974
1975	---	---	0.028	2.77	0.804	0.211	0.050	1.06	1.19	0.229	---	---	0.785	1975
1976	---	---	0.083	4.58	0.249	0.283	0.053	0.012	0.008	0.039	---	---	0.652	1976
1977	---	---	0.032	0.175	0.105	0.062	0.091	0.059	0.117	0.075	---	---	0.089	1977
1978	---	---	0.020	1.62	0.581	0.111	0.011	0.005	0.036	0.045	---	---	0.300	1978
1979	---	---	0.015	5.28	3.22	0.269	0.027	0.004	0.017	0.041	---	---	1.10	1979
1980	---	---	0	0.620	0.051	0.012	0.007	0.166	0.160	0.177	---	---	0.148	1980
1981	---	0.307	0.672	0.457	0.092	0.091	0.003	0.048	0.065	0.089	---	---	0.189	1981
1982	---	---	0.118	1.98	0.135	0.066	0.073	0.016	0.019	0.075	---	---	0.306	1982
1983	---	---	0.014	3.47	0.402	0.181	0.199	0	0.005	0.150	---	---	0.544	1983
1984	---	---	0.203	0.324	0.176	0.082	0.006	0	0.001	0.058	---	---	0.106	1984
1985	---	---	0.108	1.10	0.125	0.095	0.027	0.150	0.096	0.094	---	---	0.222	1985
1986	---	---	1.38	1.70	1.12	0.179	0.433	0.041	0.041	0.035	---	---	0.690	1986
1987	---	---	0.089	3.71	0.139	0.100	0.093	0.045	0.016	0.045	---	---	0.517	1987
1988	---	---	0.041	0.710	0.144	0.016	0.001	0	0.002	0.016	---	---	0.115	1988
1989	---	---	0.003	0.120	0.067	0.042	0.015	0	0	0.001	---	---	0.031	1989
1990	---	---	0.182	0.808	0.355	0.060	0.021	0.004	0	0.017	---	---	0.179	1990
MEAN	---	0.307	0.205	2.17	0.620	0.231	0.184	0.081	0.086	0.064	---	---	0.451	MEAN

LOCATION - LAT 50 13 58 N LONG 099 34 00 W DRAINAGE AREA, 163 km^2 NATURAL FLOW

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "NEEPAWA CREEK NEAR NEEPAWA"

STONY CREEK NEAR NEEPAWA - STATION NO. 05LL009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	6.12 B ON MAR 26	0 B ON MAR 01 *	3 280	1959
1960	---	16.5 ON APR 16	0 B ON MAR 01	16 200	1960
1961	---	0.963 ON APR 21	0 B ON MAR 01	1 210	1961
1962	---	12.3 ON APR 21	0 B ON MAR 01	6 140	1962
1963	---	8.38 ON MAR 29	0 B ON MAR 01	10 300	1963
1964	---	2.15 ON APR 14	0 B ON MAR 01	3 490	1964
1965	---	20.6 ON APR 13	0 B ON MAR 01	18 300	1965
1966	---	10.9 ON APR 02	0 B ON MAR 01	8 830	1966
1967	---	22.9 ON APR 15	0 ON JUL 13	11 400	1967
1968	---	5.10 B ON MAR 28	0 ON JUL 16	4 230	1968
1969	---	34.0 ON APR 13	0.009 ON JUN 23	21 500	1969
1970	---	25.0 ON APR 29	0 ON AUG 13	26 800	1970
1971	---	7.82 ON JUN 10	0 B ON MAR 01	15 500	1971
1972	---	11.0 B ON APR 17	0 B ON MAR 01	11 700	1972
1973	---	2.92 ON SEP 04	0 ON JUL 12	2 100	1973
1974	---	14.6 ON APR 21	0 ON JUL 25	17 400	1974
1975	---	18.9 ON APR 29	0.023E ON JUL 28	16 600	1975
1976	13.7 AT 03:21 CST ON APR 10	12.7 ON APR 09	0 ON JUL 27	13 800	1976
1977	---	0.416 ON SEP 25	0 B ON MAR 01	1 890	1977
1978	10.5 AT 11:29 CST ON MAY 25	4.84 B ON APR 18	0 ON AUG 09	6 350	1978
1979	48.1 AT 18:30 CST ON APR 21 *	35.0 ON APR 21 *	0 ON AUG 19	23 300	1979
1980	5.04 AT 17:39 CST ON APR 04	2.22 B ON APR 04	0 B ON MAR 01	3 130	1980
1981	3.17 AT 03:08 CST ON AUG 31	1.22 ON AUG 31	0 ON JUL 06	4 010	1981
1982	8.42B AT 21:35 CST ON APR 15	1.78 B ON APR 15	0 B ON MAR 01	6 470	1982
1983	---	16.9 B ON APR 21	0 B ON APR 06	11 500	1983
1984	2.75 AT 17:42 CST ON MAY 05	1.13 B ON MAR 28	0 B ON MAR 09	2 240	1984
1985	3.25B AT 12:26 CST ON APR 13	2.25 B ON APR 13	0 B ON MAR 01	4 690	1985
1986	12.4 B AT 00:04 CST ON MAR 30	10.6 B ON MAR 30	0.004 ON SEP 09	14 600	1986
1987	24.8 AT 11:05 CST ON APR 07	21.2 ON APR 07	0.001 ON JUL 30	11 000	1987
1988	---	3.10 E ON APR 03	0 B ON MAR 01	2 430	1988
1989	---	0.340B ON APR 05	0 B ON MAR 01	651	1989
1990	---	2.05 B ON MAR 31	0 B ON MAR 01	3 800	1990
				9 550	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

STURGEON CREEK AT ST. JAMES - STATION NO. 05MJ004

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.646	3.34	---	---	---	---	---	---	---	---	---	1961
1962	---	---	0	1.09	0.680	0.337	0.414	6.79	1.78	0.291	0.310	---	1.43	1962
1963	---	---	1.59	11.2	1.43	4.36	0.219	0.461	0.062	0.021	---	---	2.38	1963
1964	---	---	0	3.48	0.181	0.177	0.093	0.036	0.029	0.033	---	---	0.495	1964
1965	---	---	0	5.82	0.409	0.146	0.110	0.036	0.063	0.041	---	---	0.810	1965
1966	---	---	0.139	9.04	2.42	0.078	0.475	0.082	0.049	0.041	---	---	1.52	1966
1967	---	---	0.018	7.58	0.646	0.032	0.065	0.068	0.038	0.031	---	---	1.04	1967
1968	---	---	0.975	2.13	0.062	0.038	0.161	2.99	0.803	0.388	---	---	0.943	1968
1969	---	---	0.001	12.5	2.53	2.31	1.92	0.833	0.107	0.103	---	---	2.51	1969
1970	---	---	0.032	17.8	6.77	1.27	0.939	0.047	0.046	0.064	---	---	3.33	1970
1971	---	---	0	10.2	0.299	0.237	0.143	0.027	0.012	0.039	---	---	1.35	1971
1972	---	---	0.073	11.1	0.164	0.042	0.060	0.250	0.039	0.026	---	---	1.44	1972
1973	---	---	1.83	0.223	0.062	0.080	0.054	0.022	0.177	0.051	---	---	0.315	1973
1974	---	---	0.037	22.5	10.1	0.184	0.042	0.102	0.034	0.035	---	---	4.08	1974
1975	---	---	0.031	3.01	0.305	0.092	0.057	0.037	0.049	0.052	---	---	0.447	1975
1976	---	---	0.099	9.84	0.039	0.167	0.088	0.049	0.025	0.025	---	---	1.27	1976
1977	---	---	0.074	0.773	1.07	0.140	0.153	0.077	0.080	0.058	---	---	0.302	1977
1978	---	---	0.160	13.0	1.38	0.256	0.054	0.101	0.114	0.093	---	---	1.87	1978
1979	---	---	0	22.0	7.72	0.747	0.324	0.266	0.297	0.172	---	---	3.89	1979
1980	---	---	0.027	2.65	0.039	0.076	0.045	0.097	0.166	0.054	---	---	0.388	1980
1981	---	---	1.38	0.434	0.010	0.014	0.016	0.010	0.006	0.021	---	---	0.239	1981
1982	---	---	0.311	3.38	0.201	0.023	0.118	0.030	0.019	0.104	---	---	0.515	1982
1983	---	---	2.48	13.7	0.102	1.24	0.004	0.019	0.014	0.085	---	---	2.17	1983
1984	---	---	0.312	0.497	0.077	2.52	0.082	0.004	0.049	0.122	---	---	0.451	1984
1985	---	---	5.01	4.92	0.364	0.179	0.101	1.88	0.076	0.046	---	---	1.57	1985
1986	---	---	2.57	9.56	6.96	0.189	5.46	0.335	0.209	0.010	---	---	3.16	1986
1987	---	---	0.046	13.3	0.022	0.144	0.163	1.49	0.037	0.064	---	---	1.87	1987
1988	---	---	0.108	0.804	0.013	0.041	0.016	0.001	0.028	0.031	---	---	0.128	1988
MEAN	---	---	0.641	7.71	1.63	0.559	0.422	0.598	0.163	0.078	0.310	---	1.46	MEAN

LOCATION - LAT 49 52 52 N
LONG 097 16 43 W
DRAINAGE AREA, 565 km²
REGULATED

STURGEON CREEK AT ST. JAMES - STATION NO. 05MJ004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	---	0 B ON MAR 01 *	---	1961
1962	---	18.3 E ON AUG 24	0 B ON MAR 01	30 200	1962
1963	---	19.3 ON JUN 04	0 B ON MAR 01	50 300	1963
1964	---	11.2 B ON APR 16	0 B ON MAR 01	10 500	1964
1965	---	12.7 B ON APR 14	0 B ON MAR 01	17 100	1965
1966	---	32.3 B ON APR 13	0 B ON MAR 01	32 200	1966
1967	---	23.5 B ON APR 20	0 B ON MAR 01	22 100	1967
1968	---	15.8 ON AUG 24	0 ON MAR 01	20 000	1968
1969	---	35.1 ON APR 10	0 B ON MAR 01	53 100	1969
1970	---	50.4 ON APR 25	0 B ON MAR 01	70 400	1970
1971	---	42.5 ON APR 11	0 B ON MAR 01	28 500	1971
1972	---	41.9 ON APR 17	0.003 ON JUN 09	30 500	1972
1973	---	7.14 ON MAR 26	0 B ON MAR 01	6 660	1973
1974	---	82.7 ON APR 21 *	0.018 ON SEP 20	86 400	1974
1975	---	10.3 ON APR 17	0 E ON JUN 21	9 470	1975
1976	---	37.7 ON APR 09	0.003 ON AUG 26	26 800	1976
1977	---	12.8 ON MAY 05	0.014B ON MAR 25	6 400	1977
1978	---	39.9 ON APR 14	0.003B ON MAR 01	39 500	1978
1979	---	63.2 A ON APR 24	0 B ON MAR 01	82 400	1979
1980	---	10.4 B ON APR 10	0 B ON MAR 01	8 210	1980
1981	---	3.00B ON MAR 17	0 ON APR 10	5 060	1981
1982	---	15.6 B ON APR 13	0 B ON MAR 01	10 900	1982
1983	46.9B AT 16:12 CST ON APR 05	43.7 ON APR 06	0 B ON MAR 01	45 900	1983
1984	25.5 AT 18:10 CST ON JUN 21	14.3 ON JUN 22	0 ON AUG 29	9 540	1984
1985	---	28.5 A ON MAR 29	0 B ON MAR 01	33 300	1985
1986	55.4 AT 23:09 CST ON APR 01 *	52.5 ON APR 02	0 ON OCT 09	66 900	1986
1987	---	60.2 ON APR 09	0.002 ON MAY 04	39 700	1987
1988	---	5.32A ON APR 04	0 ON APR 22	2 710	1988
				31 300	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

STURGEON CREEK NEAR PERIMETER HIGHWAY - STATION NO. 05MJ011

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0.014	9.80	0.969	0.173	0.048	0.001	0	0	---	---	1.35	1978
1979	---	---	0	16.6	6.50	0.507	0.165	0	0	0	---	---	2.94	1979
1980	---	---	0	2.16	0.033	0	0.005	0.028	0.097	0.036	---	---	0.289	1980
1981	---	---	1.12	0.218	0.045	0.039	0.047	0.021	0.029	0.049	---	---	0.197	1981
1982	---	---	0.710	3.09	0.089	0.008	0.051	0.018	0.034	0.105	---	---	0.506	1982
1983	---	---	1.49	10.5	0.183	0.765	0.074	0.076	0.014	0.036	---	---	1.61	1983
1984	---	---	0.277	0.431	0.056	1.46	0.129	0.017	0.037	0.122	---	---	0.312	1984
1985	---	---	3.74	3.08	0.463	0.066	0.010	1.00	0.387	0.317	---	---	1.13	1985
1986	---	---	2.86	8.04	5.78	0.108	4.65	0.051	0.044	0.038	---	---	2.70	1986
1987	---	---	0.458	11.3	0.044	0.037	0.044	0.948	0.059	0.057	---	---	1.59	1987
1988	---	---	0.040	1.01	0.035	0.034	0.015	0.007	0.014	0.014	---	---	0.143	1988
1990	---	---	0.312	2.40	0.086	0.550	0.016	0.005	0	0	---	---	0.415	1990
MEAN	---	---	0.918	5.72	1.19	0.312	0.438	0.181	0.060	0.065	---	---	1.10	MEAN

LOCATION - LAT 49 55 20 N, LONG 097 20 40 W
DRAINAGE AREA, 534 km²
NATURAL FLOW

STURGEON CREEK NEAR PERIMETER HIGHWAY - STATION NO. 05MJ011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	34.0 B AT 10:57 CST ON APR 14	30.6 B ON APR 14	0 B ON MAR 01 *	28 600	1978
1979	53.3 B AT 03:54 CST ON APR 23 *	52.7 B ON APR 23	0 B ON MAR 01	62 200	1979
1980	---	7.56B ON APR 11	0 B ON MAR 01	6 120	1980
1981	3.26 AT 14:57 CST ON MAR 27	3.13 ON MAR 29	0 ON MAY 18	4 160	1981
1982	---	10.2 B ON APR 13	0 B ON MAR 01	10 700	1982
1983	37.5 B AT 15:56 CST ON APR 05	35.9 B ON APR 05	0 B ON MAR 01	34 100	1983
1984	11.1 AT 14:31 CST ON JUN 22	9.47 ON JUN 22	0 ON APR 17	6 600	1984
1985	---	17.8 B ON MAR 26	0 B ON MAR 01	24 000	1985
1986	44.7 B AT 14:17 CST ON APR 01	40.4 B ON APR 01	0 B ON MAR 01	57 100	1986
1987	---	53.6 ON APR 08 *	0.008B ON MAR 01	33 800	1987
1988	---	5.10B ON APR 04	0 ON AUG 06	3 040	1988
1990	9.92B AT 17:30 CST ON APR 02	7.71B ON APR 03	0 B ON MAR 01	8 780	1990
				23 300	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SWAN CREEK NEAR LUNDAR - STATION NO. 05LN003

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	2.82	1.43	0.384	0.125	0.008	0	0	---	---	0.590	1960
1961	---	---	0.076	0.190	0.109	0.001	0	0	0.006	0	---	---	0.048	1961
1962	---	---	0	0.419	0.107	0.084	0	0.027	0.003	0	---	---	0.079	1962
1963	---	---	0.158	3.51	0.603	6.77	2.00	0.754	0.191	0.076	---	---	1.74	1963
1964	---	---	0	0.308	0.229	0.009	0	0	0	0	---	---	0.068	1964
1965	---	---	0	0.757	1.32	0.752	0.139	0.036	0.020	0.013	---	---	0.378	1965
1966	---	---	0.234	1.79	1.91	0.143	0.014	0	0	0	---	---	0.509	1966
1967	---	---	0	1.43	0.485	0.029	0.001	0	0	0	---	---	0.241	1967
1968	---	---	0.032	0.191	0.067	0.080	0.008	0.044	0.829	0.131	---	---	0.170	1968
1969	---	---	0	1.83	0.298	0.056	0.039	0.218	0.012	0.013	---	---	0.304	1969
1970	---	---	0	1.19	1.29	0.201	0.059	0.003	0.001	0.001	---	---	0.341	1970
1971	---	---	0	0.487	0.117	0.013	0.031	0	0	0.001	---	---	0.080	1971
1972	---	---	0	0.708	0.108	0.010	0	0.001	0	0	---	---	0.102	1972
1973	---	---	0.055	0.009	0.009	0.333	0.034	0.020	0.015	0.055	---	---	0.065	1973
1974	---	---	0	4.52	11.0	2.94	0.204	0.057	0.032	0.016	---	---	2.35	1974
1975	---	---	0	0.390	0.718	0.324	0.096	5.16	7.62	4.83	---	---	2.39	1975
1976	---	---	0.142	16.1	5.50	1.04	0.490	0.036	0.005	0.006	---	---	2.88	1976
1977	---	---	0.019	0.092	0.123	0.182	0.260	0.060	0.221	0.241	---	---	0.150	1977
1978	---	---	0	1.82	0.673	0.147	0.295	0.007	0.018	0.008	---	---	0.367	1978
1979	---	---	0	5.06	7.58	3.60	0.842	0.094	0.032	0.023	---	---	2.14	1979
1980	---	---	0	0.490	0.074	0.024	0.072	0.674	0.523	0.271	---	---	0.265	1980
1981	---	---	0.202	0.371	0.062	0.035	0.480	0.005	0.016	0.103	---	---	0.160	1981
1982	---	---	0.014	0.680	0.419	0.356	0.227	0.053	0.011	0.016	---	---	0.220	1982
1983	---	---	0.011	1.64	0.386	0.170	0.176	0.017	0.146	0.535	---	---	0.382	1983
1984	---	---	0.023	0.028	0.026	0.028	0.015	0	0.005	0.033	---	---	0.020	1984
1985	---	---	0.175	0.701	0.060	0.024	0.003	0.280	0.264	0.368	---	---	0.233	1985
1986	---	---	0.424	7.63	10.1	1.28	0.970	0.432	0.043	0.060	---	---	2.64	1986
1987	---	---	0.073	1.44	0.145	0.028	0.015	0.040	0.002	0.002	---	---	0.215	1987
1988	---	---	0.023	0.154	0.164	0.012	0.013	0.001	0.002	0	---	---	0.046	1988
1989	---	---	0	0.023	0.001	0.266	0.039	0	0.007	0	---	---	0.041	1989
1990	---	---	0.027	0.673	0.203	0.045	0.086	0.003	0.001	0.001	---	---	0.129	1990
MEAN	---	---	0.054	1.85	1.47	0.625	0.217	0.259	0.323	0.219	---	---	0.624	MEAN

LOCATION - LAT 50 43 17 N DRAINAGE AREA, 723 km²
LONG 098 05 24 W NATURAL FLOW

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "BURNT LAKE DRAIN NO. 2 NEAR LUNDAR"

SWAN CREEK NEAR LUNDAR - STATION NO. 05LN003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	7.05 ON APR 19	0 B ON MAR 01 *	12 500	1960
1961	---	0.368 ON APR 01	0 B ON MAR 01	1 010	1961
1962	---	3.62 B ON APR 20	0 B ON MAR 01	1 670	1962
1963	---	18.2 ON JUN 11	0 B ON MAR 01	36 800	1963
1964	---	1.01 ON APR 18	0 B ON MAR 01	1 440	1964
1965	---	5.21 ON MAY 27	0 B ON MAR 01	8 000	1965
1966	---	5.35 B ON APR 01	0 B ON MAR 01	10 800	1966
1967	---	6.46 B ON APR 22	0 B ON MAR 01	5 100	1967
1968	---	2.82 ON SEP 03	0 B ON MAR 01	3 610	1968
1969	---	6.14 ON APR 12	0 B ON MAR 01	6 450	1969
1970	---	3.99 B ON APR 18	0 B ON MAR 01	7 230	1970
1971	---	2.13 ON APR 19	0 B ON MAR 01	1 690	1971
1972	---	3.17 ON APR 16	0 B ON MAR 01	2 150	1972
1973	---	1.36 ON JUN 20	0 B ON MAR 01	1 390	1973
1974	---	14.4 ON MAY 22	0 B ON MAR 01	49 700	1974
1975	---	14.2 ON AUG 25	0 B ON MAR 01	50 600	1975
1976	---	27.9 ON APR 19 *	0.001B ON OCT 26	61 000	1976
1977	---	0.688 ON SEP 09	0 B ON MAR 01	3 170	1977
1978	---	3.45 ON APR 15	0 B ON MAR 01	7 780	1978
1979	19.6 AT 02:15 CST ON APR 21 *	18.5 ON APR 21	0 B ON MAR 01	45 400	1979
1980	7.03 AT 12:30 CST ON AUG 21	5.78 ON AUG 21	0 B ON MAR 01	5 610	1980
1981	6.74 AT 04:46 CST ON JUL 03	4.15 ON JUL 03	0 B ON MAR 01	3 380	1981
1982	2.66 B AT 08:44 CST ON APR 15	2.27 B ON APR 15	0 B ON MAR 01	4 660	1982
1983	4.33 B AT 18:53 CST ON APR 06	3.87 B ON APR 07	0 B ON MAR 01	8 090	1983
1984	0.341B AT 09:19 CST ON MAR 31	0.155B ON MAR 31	0 B ON MAR 01	420	1984
1985	3.13 AT 14:30 CST ON APR 05	2.32 ON APR 05	0 B ON MAR 01	4 940	1985
1986	18.8 AT 17:59 CST ON MAY 06	18.7 ON MAY 06	0 B ON MAR 01	55 900	1986
1987	7.93 AT 08:30 CST ON APR 06	7.09 B ON APR 06	0 B ON MAR 01	4 540	1987
1988	1.05 B AT 16:24 CST ON APR 03	0.889B ON APR 03	0 B ON MAR 01	976	1988
1989	0.942 AT 10:51 CST ON JUN 13	0.868 ON JUN 13	0 B ON MAR 01	875	1989
1990	2.09 AT 10:51 CST ON APR 05	1.85 ON APR 05	0 B ON MAR 01	2 720	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		13 200	MEAN

SWAN RIVER AT SWAN RIVER - STATION NO. 05LE001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	---	11.3	2.83	---	1912
1913	1.98	1.42	1.42	63.8	29.6	13.6	51.8	15.3	7.10	4.78	2.83	1.42	16.3	1913
1914	1.13	1.13	0.850	34.1	44.5	6.49	1.44	0.634	0.921	1.40	1.13	0.566	7.88	1914
1915	0	0	0.396	11.3	2.30	2.71	5.72	2.11	1.12	1.70	1.14	0.293	2.40	1915
1916	0.491	0.356	0.398	14.7	14.7	48.4	16.0	3.68	2.48	3.67	2.13	0.510	8.92	1916
1917	0.164	0.094	0.116	14.7	41.1	21.4	18.6	2.45	1.88	1.36	1.63	0.954	7.99	1917
1918	0.368	0.122	5.65	12.9	8.19	23.3	28.5	6.86	3.51	2.35	2.00	0.666	7.99	1918
1919	0.361	0.291	0.252	20.1	12.0	4.18	4.67	2.91	5.23	6.99	2.21	0.313	4.96	1919
1920	---	---	---	53.0	66.0	15.9	4.59	1.53	1.34	2.82	---	---	---	1920
1921	---	---	---	45.2	27.2	21.8	11.3	16.1	13.8	14.9	9.91	2.83	---	1921
1922	1.42	0.850	0.708	74.2	102	14.2	5.86	8.20	5.34	4.74	4.87	0.991	18.7	1922
1923	0.566	0.425	1.42	61.2	54.5	46.7	29.8	8.30	2.90	3.12	1.31	1.08	17.6	1923
1924	0.903	0.691	0.607	14.3	12.8	5.87	2.43	10.1	2.25	2.87	1.46	0.844	4.60	1924
1925	0.448	0.137	0.827	82.4	14.7	31.0	19.3	3.99	3.60	2.95	1.76	0.780	13.4	1925
1926	0.369	0.190	0.618	48.4	10.8	10.9	2.56	0.491	0.800	3.25	3.59	0.897	6.86	1926
1927	0.560	0.303	0.602	47.8	57.3	33.9	17.5	7.07	12.0	9.40	4.89	1.65	16.1	1927
1928	0.727	0.324	6.65	9.85	11.8	5.28	12.8	2.81	1.60	1.37	0.708	0.227	4.54	1928
1929	0.017	0.006	0.227	7.09	6.19	3.58	3.15	0.688	0.593	0.645	---	---	---	1929
1930	---	---	---	---	8.03	9.35	8.62	1.17	1.35	1.12	---	---	---	1930
1931	---	---	---	---	6.72	2.22	1.34	0.564	1.52	3.00	---	---	---	1931
1932	---	---	---	19.9	7.12	6.76	6.45	1.28	2.12	1.37	---	---	---	1932
1933	---	---	---	23.1	17.5	19.5	11.0	1.68	2.28	2.64	---	---	---	1933
1934	---	---	---	---	39.7	11.2	6.42	1.33	1.07	1.51	---	---	---	1934
1935	---	---	---	---	8.79	23.1	9.66	1.58	1.06	1.71	---	---	---	1935
1936	---	---	---	---	22.0	10.9	4.96	0.745	0.453	---	---	---	---	1936
1950	---	---	---	---	---	---	---	8.14	1.82	1.83	2.76	0.974	---	1950
1951	0.635	0.585	0.636	23.1	43.9	13.6	7.33	5.21	15.8	17.6	9.28	2.18	11.7	1951
1952	0.932	0.661	0.744	44.7	19.0	8.52	5.74	3.53	2.59	1.92	1.46	0.640	7.50	1952
1953	0.617	0.554	0.599	31.6	21.3	25.1	48.2	18.2	18.6	5.90	5.41	2.14	14.9	1953
1954	1.15	1.13	1.06	23.4	51.0	76.4	18.0	3.53	10.2	7.13	4.61	2.16	16.6	1954
1955	0.723	0.926	0.968	49.1	51.8	8.75	4.01	0.776	0.480	1.15	1.06	0.696	10.1	1955
1956	0.595	0.566	0.685	15.4	65.4	15.2	14.6	3.89	2.77	1.40	1.36	0.919	10.3	1956
1957	0.504	0.368	0.345	50.5	37.4	7.61	3.56	1.22	1.49	1.47	1.20	0.626	8.85	1957
1958	0.491	0.314	0.760	6.96	2.63	2.01	3.16	0.623	0.217	2.65	0.948	0.431	1.68	1958
1959	0.133	0	0.456	9.99	6.55	3.76	4.99	0.815	3.60	5.62	3.69	1.24	3.41	1959
1960	0.683	0.551	0.515	44.8	20.6	12.8	2.76	1.25	0.358	---	---	---	---	1960
MEAN	0.647	0.480	1.10	33.0	27.6	16.2	11.7	4.25	3.81	3.83	3.26	1.11	9.71	MEAN

LOCATION - LAT 52 05 45 N LONG 101 15 30 W DRAINAGE AREA, 4 060 km² NATURAL FLOW

SWAN RIVER AT SWAN RIVER - STATION NO. 05LE001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	139 ON APR 16	1.42 B ON FEB 01	514 000	1913
1914	---	113 ON MAY 07	0.311 ON AUG 19	249 000	1914
1915	---	32.3 ON APR 14	0 B ON JAN 01 *	75 700	1915
1916	---	77.3 ON JUN 11	0.311B ON FEB 24	282 000	1916
1917	---	64.6 ON MAY 07	0.028B ON MAR 01	257 000	1917
1918	---	66.0 ON JUL 04	0.028B ON FEB 17	252 000	1918
1919	---	56.1 ON APR 14	0.057B ON DEC 22	156 000	1919
1920	---	157 ON APR 25	---	---	1920
1921	---	83.0 ON APR 21	---	---	1921
1922	---	240 ON APR 25 *	0.708B ON MAR 01	589 000	1922
1923	---	203 ON APR 23	0.425B ON FEB 01	556 000	1923
1924	---	28.9 ON MAY 01	0.538B ON MAR 14	146 000	1924
1925	---	225 ON APR 08	0.057B ON FEB 26	423 000	1925
1926	---	126 B ON APR 19	0.071B ON MAR 03	216 000	1926
1927	---	123 B ON APR 21	0.184B ON FEB 19	508 000	1927
1928	---	43.0 ON JUL 06	0.170B ON MAR 02	144 000	1928
1929	---	14.8 ON APR 29	---	---	1929
1930	---	---	---	---	1930
1931	---	---	---	---	1931
1932	---	41.1 ON APR 12	---	---	1932
1933	---	---	---	---	1933
1934	---	55.2 ON MAY 06	---	---	1934
1935	---	---	---	---	1935
1936	---	---	---	---	1936
1950	---	---	---	---	1950
1951	---	89.5 ON MAY 02	0.510B ON JAN 25	369 000	1951
1952	---	77.6 ON APR 09	0.481B ON DEC 24	237 000	1952
1953	---	77.6 ON JUL 03	0.538B ON FEB 08	471 000	1953
1954	---	116 ON JUN 20	0.991B ON JAN 15	525 000	1954
1955	---	104 ON APR 09	0.368 ON SEP 10	317 000	1955
1956	---	115 ON MAY 06	0.566B ON FEB 01	326 000	1956
1957	---	192 ON APR 23	0.340B ON MAR 07	279 000	1957
1958	---	11.7B ON APR 03	0.057 ON SEP 10	53 100	1958
1959	---	28.3B ON APR 10	0 B ON JAN 19	108 000	1959
1960	---	84.1 ON APR 21	---	---	1960
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		306 000	MEAN

SWAN RIVER NEAR MINITONAS - STATION NO. 05LE006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	---	---	---	---	0.505	0.575	0.366	---	1960
1961	0.252	0.153	0.114	0.863	1.53	0.715	0.087	0.133	0.010	0.065	0.271	0.235	0.369	1961
1962	0.068	0	0.015	4.51	8.72	1.40	0.402	0.192	1.29	0.901	0.849	0.301	1.57	1962
1963	0.089	0.008	0.142	22.6	2.37	2.46	2.51	1.13	0.547	0.541	0.621	0.389	2.77	1963
1964	0.331	0.435	0.545	10.2	11.8	1.09	1.20	1.51	4.96	5.04	2.41	1.16	3.39	1964
1965	0.804	0.639	0.557	15.6	14.9	35.0	5.65	2.78	3.40	5.09	1.92	1.11	7.27	1965
1966	0.840	0.733	0.708	48.1	19.2	15.5	16.5	5.26	4.45	1.45	1.41	1.19	9.63	1966
1967	0.963	0.819	0.739	7.90	12.4	8.79	0.961	0.790	0.192	0.754	0.152	0.260	5.76	1967
1968	0.184	0.232	2.62	7.40	46.4	3.20	3.51	7.55	5.19	1.89	1.19	0.537	2.94	1968
1969	0.471	0.566	0.684	22.0	1.73	2.27	2.82	1.00	0.794	4.92	1.70	0.783	3.54	1969
1970	0.413	0.434	0.543	20.2	25.9	10.1	13.4	4.07	1.18	3.65	13.2	2.83	8.02	1970
1971	1.18	0.947	0.842	67.2	12.4	5.20	1.83	1.78	0.328	2.64	2.81	1.65	8.44	1971
1972	0.992	0.727	0.861	50.8	58.1	5.00	3.52	0.998	0.343	0.742	0.236	0.007	10.4	1972
1973	0.002	0	1.16	6.94	5.71	14.5	10.4	1.64	0.801	1.29	1.07	0.868	3.71	1973
1974	0.672	0.699	0.825	50.8	54.5	18.6	2.21	1.17	2.40	3.49	2.07	1.16	11.6	1974
1975	0.839	0.689	0.757	34.6	28.6	15.9	4.10	1.28	4.57	7.11	3.75	1.11	8.61	1975
1976	0.770	0.723	0.751	55.3	7.03	33.0	17.8	1.77	0.813	0.907	0.520	0.238	9.89	1976
1977	0.355	0.401	0.468	14.1	4.85	2.09	1.77	3.06	6.77	6.41	3.14	1.65	3.75	1977
1978	1.10	0.712	0.708	27.2	16.4	2.70	2.44	0.816	1.86	3.99	2.11	1.22	5.10	1978
1979	0.870	0.698	0.569	46.6	52.4	25.0	2.92	0.540	0.545	0.773	0.996	0.647	11.1	1979
1980	0.418	0.498	0.607	17.9	2.31	0.686	1.81	2.32	2.88	4.51	2.14	1.10	3.08	1980
1981	0.557	0.310	0.926	10.1	5.98	2.90	2.44	1.41	0.027	2.46	4.31	1.07	3.07	1981
1982	0.134	0.123	0.303	5.21	3.00	2.93	7.98	3.26	1.03	2.46	1.04	0.964	2.56	1982
1983	0.836	0.605	0.321	34.1	30.4	14.5	20.9	5.47	2.48	5.95	6.69	1.25	9.57	1983
1984	0.620	1.03	5.75	34.9	32.6	26.6	3.97	0.742	0.844	1.73	0.871	0.978	9.19	1984
1985	0.846	0.779	1.31	56.4	14.9	7.11	3.58	4.67	3.04	5.12	2.28	1.10	8.39	1985
1986	0.893	0.705	0.588	57.6	22.0	9.48	2.42	2.01	0.870	1.90	1.06	0.436	8.49	1986
1987	0.645	0.593	1.68	33.6	5.05	3.10	6.23	2.44	1.27	3.25	3.20	1.26	5.18	1987
1988	0.758	0.800	1.02	70.8	66.4	4.36	0.916	0.477	0.374	0.619	0.675	0.435	12.3	1988
1989	0.326	0.223	0.191	4.12	2.79	2.27	1.62	0.463	2.24	1.30	1.39	0.783	1.47	1989
1990	0.566	0.518	0.651	36.1	19.8	5.70	5.53	1.27	0.386	0.454	0.512	0.217	5.97	1990
MEAN	0.594	0.527	0.901	29.1	19.6	9.32	5.14	2.07	1.86	2.67	1.98	0.892	6.23	MEAN

LOCATION - LAT 52 11 47 N LONG 101 03 37 W DRAINAGE AREA, 4 230 km² NATURAL FLOW

SWAN RIVER NEAR MINITONAS - STATION NO. 05LE006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1960	---	---	---	---	1960
1961	---	3.00 ON APR 24	0 ON AUG 25 *	11 600	1961
1962	---	15.9 A ON MAY 03	0 B ON JAN 28	49 600	1962
1963	---	67.1 B ON APR 10	0 B ON FEB 13	87 200	1963
1964	---	22.7 B ON APR 14	0.311B ON JAN 07	107 000	1964
1965	82.4 AT 13:30 CST ON JUN 10	81.6 ON JUN 10	0.555B ON MAR 04	229 000	1965
1966	---	127 B ON APR 17	0.698B ON MAR 08	304 000	1966
1967	---	97.4 B ON MAY 08	0.006 ON SEP 12	102 000	1967
1968	---	25.9 B ON MAR 30	0.161B ON JAN 13	92 800	1968
1969	---	75.6 B ON APR 15	0.201 ON SEP 03	112 000	1969
1970	54.9 AT 05:00 CST ON MAY 04	53.8 ON MAY 04	0.340B ON JAN 19	253 000	1970
1971	163 AT 00:00 CST ON APR 18	158 ON APR 18	0.127 ON SEP 19	266 000	1971
1972	170 AT 15:20 CST ON APR 22	166 ON APR 22	0.003B ON DEC 26	323 000	1972
1973	24.2 AT 09:56 CST ON JUL 08	24.1 ON JUL 08	0 B ON JAN 25	117 000	1973
1974	---	217 ON APR 21	0.578 ON AUG 11	365 000	1974
1975	120 AT 18:40 CST ON APR 25	117 ON APR 26	0.462 ON AUG 19	272 000	1975
1976	---	159 B ON APR 10	0.181B ON DEC 01	311 000	1976
1977	---	45.3 E ON APR 14	0.309B ON JAN 01	118 000	1977
1978	96.6 AT 01:08 CST ON APR 19	85.8 ON APR 19	0.467 ON AUG 23	161 000	1978
1979	---	198 A ON APR 25	0.357 ON SEP 08	349 000	1979
1980	61.4 AT 16:30 CST ON APR 17	58.5 ON APR 17	0.392B ON JAN 01	97 400	1980
1981	---	16.9 E ON OCT 18	0.010 ON OCT 09	96 900	1981
1982	23.9 AT 12:56 CST ON JUL 18	23.4 ON JUL 24	0.065B ON JAN 26	80 600	1982
1983	231 AT 05:43 CST ON APR 25 *	210 ON APR 25 *	0.182B ON MAR 20	302 000	1983
1984	52.9 AT 12:40 CST ON MAY 27	52.7 ON MAY 27	0.254 ON SEP 02	290 000	1984
1985	---	114 B ON APR 13	0.717B ON FEB 15	265 000	1985
1986	113 AT 03:00 CST ON APR 11	110 ON APR 11	0.433B ON MAR 24	268 000	1986
1987	---	93.4 B ON APR 06	0.487B ON JAN 17	163 000	1987
1988	199 AT 01:22 CST ON MAY 04	195 B ON APR 06	0.200 ON SEP 19	389 000	1988
1989	---	13.6 B ON APR 22	0.170B ON MAR 09	46 400	1989
1990	---	80.6 B ON APR 05	0.174 ON OCT 04	188 000	1990
				197 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

TAYLOR RIVER NEAR THOMPSON - STATION NO. 05TG002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	---	---	---	---	---	---	---	3.42	6.64	3.06	---	1970
1971	1.27	0.846	0.714	4.86	16.0	6.15	10.9	7.32	5.32	---	---	---	---	1971
1972	2.14	1.42	0.902	2.98	22.8	11.0	5.46	2.47	3.93	5.92	3.11	1.42	5.29	1972
1973	1.09	1.22	0.790	0.571	9.66	4.95	4.65	1.49	2.98	6.00	4.39	2.44	4.13	1973
1974	1.19	0.826	0.881	5.04	19.4	9.68	5.61	3.78	4.28	4.52	3.18	2.32	5.09	1974
1975	1.42	0.742	0.488	2.06	16.4	10.4	10.7	6.82	5.65	10.9	5.30	2.28	6.80	1975
1976	1.07	0.957	0.738	2.21	3.69	10.1	13.1	6.88	3.33	3.28	2.49	1.39	4.12	1976
1977	0.734	0.632	0.603	11.2	10.3	12.6	11.0	4.04	5.32	5.03	5.42	1.91	5.74	1977
1978	0.354	0.233	0.296	1.40	12.4	8.02	7.15	6.52	7.01	17.4	9.59	4.48	6.29	1978
1979	1.61	0.644	0.380	0.485	13.5	22.5	6.29	1.73	1.55	3.13	4.05	2.28	4.86	1979
1980	0.729	0.531	0.510	4.36	2.68	1.86	2.40	5.62	18.6	15.2	4.70	2.20	4.95	1980
1981	1.36	0.997	0.798	0.721	13.5	3.96	0.775	0.177	0.047	3.67	2.07	1.06	2.44	1981
1982	0.673	0.505	0.431	1.90	23.7	11.2	2.47	3.23	3.45	4.11	3.08	1.90	4.75	1982
1983	1.56	1.30	1.02	1.93	23.0	17.8	6.58	2.65	11.1	8.56	2.83	1.34	6.66	1983
1984	0.806	0.691	0.655	9.96	19.0	10.7	5.22	2.58	6.17	7.74	4.21	2.00	5.84	1984
1985	1.33	1.03	0.845	7.98	21.7	15.8	11.7	2.91	1.16	1.91	1.26	0.380	5.70	1985
1986	0.363	0.311	0.184	0.971	20.8	11.3	20.9	12.8	4.88	2.31	0.993	0.560	6.40	1986
1987	0.456	0.382	0.440	5.43	9.44	6.56	5.97	2.76	3.95	4.60	2.41	0.912R	3.62 R	1987
1988	0.623	0.585	0.562	0.897	---	9.03	4.43	1.84	1.90	2.33	2.24	1.29	---	1988
1989	1.38	1.23	1.14	1.63	---	5.16	---	---	---	0.777	0.660	0.648	---	1989
1990	0.656	0.569	0.497	0.667	8.60	7.87	1.51	---	---	---	0.801	0.946	---	1990
MEAN	1.04	0.783	0.644	3.36	14.8	10.2	7.20	4.53	5.16	5.84	3.47	1.74 R	5.17 R	MEAN

LOCATION - LAT 55 29 20 N LONG 098 11 10 W DRAINAGE AREA, 883 km² NATURAL FLOW

R - REVISED SINCE JAN 01 1989

TAYLOR RIVER NEAR THOMPSON - STATION NO. 05TG002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	---	---	---	---	1970
1971	22.7 AT 10:51 CST ON JUL 04	23.0 ON MAY 18	---	---	1971
1972	32.8 AT 00:12 CST ON MAY 01	32.3 ON MAY 01	0.648 ON APR 16	167 000	1972
1973	18.2 AT 22:47 CST ON MAY 07	13.1 ON MAY 10	0.510B ON APR 28	130 000	1973
1974	26.3 AT 00:23 CST ON APR 30	22.7 ON MAY 13	0.719B ON APR 15	160 000	1974
1975	28.6 AT 23:00 CST ON MAY 26	28.3 ON MAY 26	0.388B ON MAR 26	214 000	1975
1976	19.9 AT 10:00 CST ON JUN 17	19.7 ON JUN 17	0.623B ON MAR 23	130 000	1976
1977	---	21.5E ON APR 17	0.578B ON MAR 27	181 000	1977
1978	---	20.5 ON OCT 05	0.227B ON FEB 06	108 000	1978
1979	39.4 AT 20:30 CST ON JUN 02 *	33.7 ON JUN 02	0.294B ON APR 09	153 000	1979
1980	28.2 AT 12:15 CST ON SEP 22	28.0 ON SEP 22	0.406 ON AUG 16	157 000	1980
1981	---	21.4B ON MAY 13	0.030 ON SEP 28 *	77 100	1981
1982	36.1 AT 18:25 CST ON MAY 05	35.9 ON MAY 05	0.382B ON APR 19	150 000	1982
1983	37.6 AT 12:45 CST ON MAY 29	37.5 ON MAY 30 *	0.770B ON APR 15	210 000	1983
1984	---	24.9 ON APR 26	0.647B ON APR 01	184 000	1984
1985	---	28.8E ON APR 27	0.311 ON DEC 05	180 000	1985
1986	35.3 ON MAY 16	35.2 ON MAY 17	0.145B ON MAR 27	202 000	1986
1987	14.8 AT 12:10 CST ON MAY 05	14.3A ON MAY 05	0.372B ON FEB 24	114 000	1987
1988	---	---	0.521B ON MAR 31	---	1988
1989	---	13.3A ON MAY 23	0.125 ON JUL 10	---	1989
1990	15.0 AT 14:30 CST ON MAY 24	14.6 ON MAY 22	---	---	1990
				163 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

TEAKO CREEK NEAR DEAD CREEK NORTH OF PINAWA - STATION NO. 05PF067

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1986	0	0	0.007	0.015	0.004	0	0	0	0	0	0	0	0.002	1986
1987	0	0	0.006	0.005	0	0	0	0	0	0	0	0	0.001	1987
1988	0	0	0	0.004	0.001	0	0.001	0	0	0	0.001	0	0.001	1988
1989	0	0	0	0.016	0.005	0.005	0	0	0	0	0	0	0.002	1989
1990	0	0	0.004	0.005	0.003	0.014	0	0	0	0	0	0	0.002	1990
MEAN	0	0	0.003	0.009	0.003	0.004	0	0	0	0	0	0	0.002	MEAN

LOCATION - LAT 50 14 40 N LONG 095 52 54 W DRAINAGE AREA, 0.52 km² NATURAL FLOW DATA CONTRIBUTED BY - ATOMIC ENERGY OF CANADA

TEAKO CREEK NEAR DEAD CREEK NORTH OF PINAWA - STATION NO. 05PF067

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1986	0.101 ON MAR 31 *	0.072 ON MAR 31	0 ON JAN 01 *	69.3	1986
1987	---	0.042 ON MAR 22	0 ON JAN 01	28.6	1987
1988	---	0.027 ON APR 05	0 ON JAN 01	18.9	1988
1989	---	0.083A ON APR 14	0 ON JAN 01	68.7	1989
1990	---	0.129 ON JUN 20 *	0 ON JAN 01	67.8	1990
				50.7	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) * - EXTREME RECORDED FOR THE PERIOD OF RECORD

TOBACCO CREEK NEAR ROLAND - STATION NO. 05OF012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1919	---	---	---	0.362	0.007	0.068	0.013	0	---	---	---	---	---	1919
1920	---	---	---	---	0.118	0.004	0	---	---	---	---	---	---	1920
1921	---	---	---	0.655	0.053	0.011	---	---	---	---	---	---	---	1921
1922	---	---	---	1.40	1.25	0.090	0.036	0.026	---	---	---	---	---	1922
1923	---	---	---	---	0.477	0.156	0.009	0	0	---	---	---	---	1923
1924	---	---	---	---	0.063	0	0	0	---	---	---	---	---	1924
1925	---	---	---	0.946	0.075	0.735	---	---	---	---	---	---	---	1925
1926	---	---	0.078	0.210	0.015	---	0.034	0	0.015	---	---	---	---	1926
1927	---	---	---	3.29	4.38	1.92	0.215	0	0.070	---	---	---	---	1927
1928	---	---	---	0.217	0.116	1.38	2.14	0.024	---	---	---	---	---	1928
MEAN	---	---	0.078	1.01	0.655	0.485	0.306	0.007	0.028	---	---	---	---	MEAN

LOCATION - LAT 49 24 10 N
LONG 097 55 50 W
DRAINAGE AREA, 313 km²
NATURAL FLOW

TOBACCO CREEK NEAR ROLAND - STATION NO. 05OF012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1919	---	1.84 ON APR 08	0 ON APR 25 *	---	1919
1920	---	5.15B ON APR 15	0 ON MAY 23	---	1920
1921	---	11.0 ON JUL 05	0 ON MAY 17	---	1921
1922	---	11.2 ON MAY 13	0 ON JUL 06	---	1922
1923	---	20.2 B ON APR 18	0 ON JUL 15	---	1923
1924	---	2.83 ON APR 29	0B ON APR 16	---	1924
1925	---	---	---	---	1925
1926	---	2.75 ON JUN 24	0 ON MAY 21	---	1926
1927	---	24.1 ON MAY 11 *	0E ON MAR 01	---	1927
1928	---	12.5 ON JUL 08	0 ON AUG 01	---	1928
			0 ON AUG 09	---	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF016

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.202	1.61	0.260	0.104	0.042	0	0	0.040	---	---	0.279	1959
1960	---	---	0.047	4.73	0.233	0.029	0	0	0	0	---	---	0.619	1960
1961	---	---	0.833	0.648	0.087	0.002	0	0	0	0	---	---	0.196	1961
1962	---	---	0	1.57	1.31	0.313	0.021	0	0	0	---	---	0.400	1962
1963	---	---	0.367	0.098	0.002	0.447	0	0	0	0	---	---	0.113	1963
MEAN	---	---	0.290	1.73	0.378	0.179	0.013	0	0	0.008	---	---	0.321	MEAN

LOCATION - LAT 49 25 42 N
LONG 098 08 01 W
DRAINAGE AREA, 247 km²
NATURAL FLOW

TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF016

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	8.72 ON APR 03	0B ON MAR 01 *	5 900	1959
1960	---	12.7 B ON APR 06 *	0B ON MAR 01	13 100	1960
1961	---	4.64B ON MAR 26	0B ON MAR 01	4 150	1961
1962	---	12.7 B ON APR 18	0 ON MAR 01	8 460	1962
1963	---	5.13 ON JUN 10	0B ON MAR 01	2 400	1963
				6 800	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF018

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	0	0.217	0.032	0.009	0	---	---	---	---	---	---	1964
1965	---	---	0	1.43	0	0.001	0	0	0	0	---	---	0.175	1965
1966	---	---	0.423	0.826	0.394	0	0.123	0	0	0	---	---	0.220	1966
1967	---	---	0.019	1.51	0.275	0.003	0.091	0	0	0	---	---	0.235	1967
1968	---	---	0.149	0.056	0.264	0.026	0.082	1.31	0.191	0.032	---	---	0.265	1968
1969	---	---	0	3.58	0.192	0.248	1.04	0.058	0	0	---	---	0.632	1969
1970	---	---	0	4.35	1.78	0.053	0	0	0	0	---	---	0.765	1970
1971	---	---	0	1.47	0.111	0.171	0.057	0	0.017	0.201	---	---	0.249	1971
1972	---	---	0.749	0.932	0.238	0.010	0	0.004	0	0	---	---	0.241	1972
1973	---	---	0.067	0.030	0.052	0.003	0.011	0.003	0	0.004	---	---	0.021	1973
1974	---	---	0	4.07	2.42	0.160	0.002	0	0	0	---	---	0.824	1974
1975	---	---	0	0.308	0.138	0.255	0.079	0	0	0	---	---	0.096	1975
1976	---	---	0.003	1.31	0.031	0	0	0	0	0	---	---	0.165	1976
1977	---	---	0	0.002	0.010	0	0	0	0.076	0.010	---	---	0.017	1977
1978	---	---	0	0.813	0.447	0.167	0.234	0	0.007	0	---	---	0.207	1978
1979	---	---	0	4.01	1.22	0.199	0.021	0.012	0	0	---	---	0.675	1979
1980	---	---	0	0.226	0.001	0	0	0	0	0	---	---	0.028	1980
1981	---	0.084	0.081	0.026	0.003	0.012	0.004	0.001	0	0	---	---	0.016	1981
1982	---	---	0.017	0.215	0.029	0.021	0	0	0	0.012	---	---	0.036	1982
1983	---	---	0.396	1.17	0.038	0.030	0.011	0	0	0	---	---	0.203	1983
1984	---	---	0.020	0.031	0.064	0.029	0	0	0	0	---	---	0.018	1984
1985	---	---	0.698	0.280	0.101	0.012	0.004	0.581	0.011	0.111	---	---	0.226	1985
1986	---	---	1.31	0.818	0.805	0.006	0.003	0	0	0	---	---	0.369	1986
1987	---	---	0.124	0.524	0.004	0	0	0	0	0	---	---	0.080	1987
1988	---	---	0.009	0.097	0.007	0	0	0	0	0	---	---	0.014	1988
1989	---	---	0	0.182	0.005	0	0	0	0	0	---	---	0.023	1989
1990	---	---	0.270	0.461	0.048	0.337	0.151	0	0	0	---	---	0.157	1990
MEAN	---	0.084	0.161	1.07	0.323	0.065	0.071	0.076	0.012	0.014	---	---	0.229	MEAN

LOCATION - LAT 49 27 00 N DRAINAGE AREA, 105 km²
LONG 098 09 45 W NATURAL FLOW

REMARKS - PRIOR TO 1980 LOCATED 4.8 KM WEST & 7.6 KM NORTH OF ROSEBANK, DR. AREA 87.3 KM2

TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF018

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	---	---	---	1964
1965	---	12.7 ON APR 13	0 ON MAR 01 *	3 710	1965
1966	12.7 AT 07:00 CST ON MAY 05	6.34 ON MAY 05	0B ON MAR 01	4 660	1966
1967	---	11.9 ON APR 21	0B ON MAR 01	4 970	1967
1968	23.2 AT 19:30 CST ON AUG 24 *	10.1 ON AUG 25	0B ON MAR 01	5 620	1968
1969	22.7 ON APR 10	19.4 ON APR 10	0B ON MAR 01	13 400	1969
1970	18.5 AT 07:35 CST ON APR 30	17.1 ON APR 30	0B ON MAR 01	16 200	1970
1971	13.4 B AT 13:40 CST ON APR 09	9.71 B ON APR 09	0B ON MAR 01	5 270	1971
1972	---	4.16 B ON MAR 19	0B ON MAR 01	5 090	1972
1973	0.518B AT 17:10 CST ON MAR 15	0.436B ON MAR 14	0B ON MAR 01	451	1973
1974	22.1 AT 11:20 CST ON APR 21	19.3 ON APR 21	0B ON MAR 01	17 400	1974
1975	4.50 AT 01:13 CST ON JUN 29	3.96 ON JUN 29	0B ON MAR 01	2 040	1975
1976	7.82 B AT 14:41 CST ON APR 03	4.45 B ON APR 03	0B ON MAR 01	3 500	1976
1977	0.869 AT 11:56 CST ON SEP 26	0.773 ON SEP 26	0B ON MAR 01	254	1977
1978	5.18 AT 11:59 CST ON MAY 26	3.43 ON MAY 26	0B ON MAR 01	4 380	1978
1979	---	26.8 B ON APR 20 *	0B ON MAR 01	14 300	1979
1980	---	1.46 B ON APR 07	0B ON MAR 01	588	1980
1981	---	0.339B ON MAR 16	0 ON APR 29	337	1981
1982	---	1.16 B ON APR 14	0B ON MAR 01	768	1982
1983	4.75 AT 15:22 CST ON APR 07	3.71 B ON APR 01	0B ON MAR 01	4 300	1983
1984	0.714B AT 22:17 CST ON MAR 27	0.290 ON MAY 06	0B ON MAR 01	379	1984
1985	4.96 AT 03:45 CST ON AUG 18	4.05 ON AUG 18	0B ON MAR 01	4 790	1985
1986	8.45 B AT 16:45 CST ON MAR 24	7.65 B ON MAR 24	0B ON MAR 01	7 810	1986
1987	3.43 B AT 08:49 CST ON APR 06	3.20 B ON APR 06	0B ON MAR 01	1 700	1987
1988	0.931 AT 08:02 CST ON APR 05	0.475B ON APR 03	0B ON MAR 01	293	1988
1989	1.18 B AT 22:30 CST ON APR 17	0.894B ON APR 17	0B ON MAR 01	487	1989
1990	3.17 B AT 06:40 CST ON APR 02	2.74 B ON APR 01	0B ON MAR 01	3 330	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		4 850	MEAN

TOUROND CREEK NEAR TOUROND - STATION NO. 05OE009

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	2.51	0.311	0.077	0.060	0.051	0.005	0.016	---	---	0.373	1969
1970	---	---	0	2.19	2.88	0.662	0.043	0	0.011	0.015	---	---	0.723	1970
1971	---	---	0	1.76	0.081	0.006	0.008	0.005	0.003	0.038	---	---	0.233	1971
1972	---	---	0.060	0.529	0.065	0.016	0	0.005	0.001	0.005	---	---	0.084	1972
1973	---	---	0.723	0.063	0.011	0.010	0.003	0	0.058	0.037	---	---	0.114	1973
1974	---	---	0	4.95	4.75	0.420	0.003	0	0	0	---	---	1.26	1974
1975	---	---	0	0.260	0.054	0.486	0.444	0	0	0	---	---	0.154	1975
1976	---	---	0.002	0.484	0.008	0.260	0.007	0	0	0	---	---	0.093	1976
1977	---	---	0.027	0.151	0.007	0.006	0	0.001	0.030	0.007	---	---	0.028	1977
1978	---	---	0.001	1.54	0.109	0.015	0.003	0	0.002	0	---	---	0.206	1978
1979	---	---	0	2.53	1.09	0.532	0.011	0.005	0.004	0	---	---	0.515	1979
1980	---	---	0	0.529	0.005	0	0	0	0	0	---	---	0.065	1980
1981	---	---	0.031	0.021	0.013	0.113	0.005	0.003	0	0.007	---	---	0.024	1981
1982	---	---	0.523	1.99	0.137	0.709	1.43	1.34	0.017	0.076	---	---	0.776	1982
1983	---	---	0.885	3.05	0.119	0.087	1.16	0.002	0	0	---	---	0.658	1983
1984	---	---	0.428	0.213	0.034	0.740	0.052	0.007	0	0.002	---	---	0.183	1984
1985	---	---	0.458	0.093	0.015	0.001	0.001	0.595	0.006	0.019	---	---	0.150	1985
1986	---	---	0.313	1.69	3.30	0.015	0.005	0	0.001	0.001	---	---	0.666	1986
1987	---	---	0	0.651	0.003	0	0.002	0	0	0	---	---	0.080	1987
1988	---	---	0.016	0.162	0.003	0	0	0	0	0	---	---	0.022	1988
1989	---	---	0	0.386	0.012	0.002	0.004	0.002	0	0	---	---	0.050	1989
1990	---	---	0.162	0.248	0.017	0.453	0.001	0	0	0	---	---	0.108	1990
MEAN	---	---	0.165	1.18	0.592	0.210	0.147	0.092	0.006	0.010	---	---	0.298	MEAN

LOCATION - LAT 49 31 50 N LONG 096 58 50 W DRAINAGE AREA, 219 km² NATURAL FLOW

TOUROND CREEK NEAR TOUROND - STATION NO. 05OE009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	10.6 B ON APR 10	0 B ON MAR 01 *	7 900	1969
1970	---	8.13 ON MAY 16	0 B ON MAR 01	15 300	1970
1971	---	10.6 B ON APR 09	0 B ON MAR 01	4 930	1971
1972	---	1.40 ON APR 19	0 B ON MAR 01	1 780	1972
1973	---	2.37 B ON MAR 13	0 B ON MAR 01	2 410	1973
1974	---	26.9 ON MAY 21 *	0 B ON MAR 01	26 700	1974
1975	---	8.38 E ON JUN 30	0 B ON MAR 01	3 270	1975
1976	---	3.20 ON JUN 12	0 B ON MAR 01	1 970	1976
1977	---	0.943B ON APR 09	0 B ON MAR 01	597	1977
1978	---	6.77 B ON APR 09	0 B ON MAR 01	4 350	1978
1979	---	17.3 B ON APR 19	0 B ON MAR 01	10 900	1979
1980	5.60 AT 21:46 CST ON APR 05	4.76 B ON APR 06	0 B ON MAR 01	1 390	1980
1981	1.00 AT 22:41 CST ON JUN 27	1.79 ON JUN 28	0 ON MAY 16	507	1981
1982	9.46 AT 02:14 CST ON JUL 29	9.28 ON JUL 29	0.001B ON MAR 01	16 400	1982
1983	---	6.88 B ON APR 07	0 B ON MAR 01	13 900	1983
1984	4.34 AT 09:02 CST ON JUN 09	3.58 ON JUN 09	0 B ON MAR 01	3 870	1984
1985	6.72 AT 17:42 CST ON AUG 24	6.07 ON AUG 24	0 B ON MAR 01	3 170	1985
1986	15.1 AT 15:12 CST ON MAY 05 *	13.5 ON MAY 01	0 B ON MAR 01	14 100	1986
1987	---	3.27 B ON APR 08	0 B ON MAR 01	1 700	1987
1988	---	1.18 B ON APR 04	0 B ON MAR 01	470	1988
1989	2.58 AT 03:30 CST ON APR 19	1.87 B ON APR 18	0 B ON MAR 01	1 060	1989
1990	3.59 AT 18:17 CST ON JUN 02	2.28 ON JUN 12	0 B ON MAR 01	2 300	1990
				6 320	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TOWNSHIP LINE DRAIN NEAR LIBAU - STATION NO. 05OJ013

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0	0.278	0.011	0	0	0	0	0	---	---	0.035	1967
1969	---	---	0	0.371	0.034	0.013	0.002	0	0	0	---	---	0.052	1969
1970	---	---	0	0.548	0.023	0.001	0	0	0	0	---	---	0.070	1970
1971	---	---	0	0.705	0.014	0.008	0.003	0	0	0	---	---	0.089	1971
1972	---	---	0	0.285	0.002	0	0	0	0	0	---	---	0.035	1972
1973	---	---	0.082	0.007	0	0.127	0	0	0	0	---	---	0.027	1973
1975	---	---	0	0.363	0.003	0.161	0.001	0	0	0	---	---	0.065	1975
1976	---	---	0	0.329	0.001	0.376	0.001	0	0	0	---	---	0.087	1976
1977	---	---	0	0.078	0.010	0.013	0.003	0	0.253	0.003	---	---	0.044	1977
MEAN	---	---	0.009	0.329	0.011	0.078	0.001	0	0.028	0	---	---	0.056	MEAN

LOCATION - LAT 50 13 50 N LONG 096 43 30 W DRAINAGE AREA, 13.5 km² NATURAL FLOW

REMARKS - PRIOR TO 1989 PUBLISHED AS "DRAINAGE DITCH NEAR LIBAU"

TOWNSHIP LINE DRAIN NEAR LIBAU - STATION NO. 05QJ013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	1.06 ON APR 15	0B ON MAR 01 *	750	1967
1969	---	3.43 ON APR 10	0 ON MAR 01	1 090	1969
1970	---	2.83B ON APR 17	0B ON MAR 01	1 480	1970
1971	---	5.66B ON APR 10	0B ON MAR 01	1 890	1971
1972	---	3.17 ON APR 15	0B ON MAR 01	744	1972
1973	---	1.53 ON JUN 20	0 ON MAR 01	566	1973
1975	---	6.26B ON APR 15 *	0B ON MAR 01	1 370	1975
1976	---	2.89B ON APR 06	0B ON MAR 01	1 830	1976
1977	---	2.13 ON SEP 10	0B ON MAR 01	938	1977
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 180	MEAN

TRURO CREEK AT WESTERN AIRPORT BOUNDARY - STATION NO. 05MJ009

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0	0.175	0.045	0.019	0	0	0	0	---	---	0.029	1978
1983	---	---	0.006	0.187	0	0.127	0.014	0	0	0	---	---	0.041	1983
1984	---	---	0.001	0	0	0.172	0.007	0	0	0	---	---	0.022	1984
1985	---	---	0.132	0.023	0	0	0	0.052	0.008	0	---	---	0.027	1985
1987	---	---	0	0.041	0	0	0	0.015	0	0	---	---	0.007	1987
1988	---	---	0	0.003	0	0	0	0	0	0	---	---	0	1988
MEAN	---	---	0.023	0.072	0.008	0.053	0.004	0.011	0.001	0	---	---	0.021	MEAN

LOCATION - LAT 49 54 34 N LONG 097 15 50 W DRAINAGE AREA, 11.1 km^2 NATURAL FLOW

TRURO CREEK AT WESTERN AIRPORT BOUNDARY - STATION NO. 05MJ009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	0.917B AT 13:58 CST ON APR 10	0.917 ON APR 11 *	0B ON MAR 01 *	623	1978
1983	0.975 AT 20:57 CST ON JUN 22 *	0.824 ON JUN 23	0B ON MAR 01	869	1983
1984	0.843 AT 19:11 CST ON JUN 22	0.796 ON JUN 22	0B ON MAR 01	467	1984
1985	---	0.502B ON MAR 23	0B ON MAR 01	575	1985
1987	---	0.333 ON AUG 15	0B ON MAR 01	148	1987
1988	---	0.025A ON APR 04	0B ON MAR 01	8.99	1988
A - MANUAL GAUGE (SEE REFERENCE INDEX)	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		448	MEAN

TRURO CREEK NEAR ASSINIBOINE GOLF COURSE - STATION NO. 05MJ010

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0.027	0.205	0.123	0.018	0.015	0.006	0.027	0.001	---	---	0.052	1978
1983	---	---	0.111	0.207	0.004	0.140	0.016	0.013	0.003	0.001	---	---	0.061	1983
1984	---	---	0.033	0.029	0.017	0.379	0.025	0.004	0.026	0.070	---	---	0.072	1984
1985	---	---	0.261	0.056	0.020	0.033	0.015	0.168	0.010	0.033	---	---	0.075	1985
1986	---	---	0.173	0.183	0.141	0.021	0.029	0.001	0.010	0.002	---	---	0.070	1986
1987	---	---	0.196	0.338	0.003	0.011	0.050	0.058	0.006	0.012	---	---	0.084	1987
1988	---	---	0.004	0.033	0.003	0.010	0.006	0	0.006	0.002	---	---	0.008	1988
MEAN	---	---	0.115	0.150	0.044	0.087	0.022	0.036	0.013	0.017	---	---	0.060	MEAN

LOCATION - LAT 49 53 18 N LONG 097 13 40 W DRAINAGE AREA, 17.4 km^2 NATURAL FLOW

TRURO CREEK NEAR ASSINIBOINE GOLF COURSE - STATION NO. 05MJ010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	4.22 AT 23:21 CST ON MAY 25	1.23 ON MAY 26	0B ON MAR 01 *	1 110	1978
1983	2.38 AT 03:58 CST ON JUN 22	0.983 ON JUN 22	0B ON MAR 01	1 290	1983
1984	5.50 AT 21:13 CST ON JUN 21 *	1.69 ON JUN 22	0B ON MAR 01	1 520	1984
1985	4.06 AT 10:26 CST ON AUG 17	1.98 ON AUG 17 *	0B ON MAR 01	1 590	1985
1986	2.46 AT 11:17 CST ON JUL 11	1.21 ON MAR 31	0B ON MAR 01	1 480	1986
1987	---	1.42 B ON APR 05	0B ON MAR 01	1 770	1987
1988	---	0.313A ON APR 02	0B ON MAR 01	165	1988
A - MANUAL GAUGE (SEE REFERENCE INDEX)	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 280	MEAN

TUMBLEWELL CREEK NEAR SOUTH INDIAN LAKE - STATION NO. 06EC004

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	---	---	---	0.024	0.026	0.132	0.065	---	---	---	---	1978
MEAN	---	---	---	---	---	0.024	0.026	0.132	0.065	---	---	---	---	MEAN

LOCATION - LAT 56 46 30 N, LONG 099 07 05 W. DRAINAGE AREA, 4.35 km². NATURAL FLOW

DATA CONTRIBUTED BY - DEPARTMENT OF FISHERIES AND OCEANS (CANADA)

TUMBLEWELL CREEK NEAR SOUTH INDIAN LAKE - STATION NO. 06EC004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	---	---	---	---	1978
				---	MEAN

TURTLE RIVER NEAR LAURIER - STATION NO. 05LJ007

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1927	---	---	---	---	18.8	---	---	3.80	0.527	1.03	---	---	---	1927
1928	---	---	---	---	2.57	10.2	3.30	0.516	0.113	---	---	---	---	1928
1948	---	---	---	---	---	0.989	2.02	1.95	0.250	0.276	---	---	---	1948
1949	---	---	---	5.93	1.84	2.19	2.40	0.524	0.248	0.527	---	---	---	1949
1950	---	---	---	6.58	17.7	9.42	6.01	1.89	0.963	1.25	---	---	---	1950
1951	---	---	---	10.0	4.97	2.37	0.627	0.525	0.573	1.20	---	---	---	1951
1952	---	---	---	9.98	1.21	0.692	0.363	0.585	2.33	0.522	---	---	---	1952
1953	---	---	---	9.71	15.1	24.1	7.72	2.50	1.44	1.23	---	---	---	1953
1954	---	---	---	6.02	7.06	10.9	3.32	0.729	4.66	3.42	1.98	---	---	1954
1955	---	---	---	13.8	12.0	14.9	1.88	0.549	0.438	0.521	---	---	---	1955
1956	---	---	---	7.65	9.75	20.7	12.7	1.09	0.776	0.683	---	---	---	1956
1957	---	---	0.612	12.1	4.49	5.23	0.671	0.459	0.687	0.632	---	---	1.07	1957
1958	---	---	1.54	3.57	1.18	0.464	0.49	0.102	0.094	0.353	---	---	1.10	1958
1959	---	---	0.604	3.87	4.85	1.25	0.582	0.154	0.281	0.746	---	---	1.54	1959
1960	---	---	0.057	18.2	10.5	1.99	0.528	0.546	0.250	0.358	---	---	4.01	1960
1961	---	---	0.125	0.860	2.01	0.163	0.034	0	0.011	0.104	---	---	0.414	1961
1962	---	---	0	3.61	2.40	2.46	0.195	0.162	0.098	0.171	---	---	1.13	1962
1963	---	---	1.31	10.1	4.24	7.08	1.01	0.266	0.486	0.445	---	---	3.09	1963
1964	---	---	0.009	7.01	2.74	0.570	0.249	0.121	0.134	0.091	---	---	1.35	1964
1965	---	---	0	6.05	7.05	3.26	0.844	0.392	4.34	0.981	---	---	2.85	1965
1966	---	---	3.69	8.63	9.81	1.91	0.571	1.27	0.234	0.201	---	---	3.29	1966
1967	---	---	0.032	13.7	10.5	1.25	0.329	0.164	0.056	0.358	---	---	3.28	1967
1968	---	---	0.829	2.77	2.84	1.27	1.83	1.65	1.09	0.706	---	---	1.62	1968
1969	---	---	0.122	13.9	2.59	5.93	4.44	0.572	0.709	0.867	---	---	3.61	1969
1970	---	---	0.202	11.0	19.6	4.26	1.67	0.367	0.773	1.10	---	---	4.87	1970
1971	---	---	0.031	9.03	1.94	15.7	3.31	0.691	0.574	3.08	---	---	4.27	1971
1972	---	---	0.690	18.4	5.77	1.14	0.392	0.265	0.222	0.442	---	---	3.37	1972
1973	---	---	1.06	1.30	1.56	2.78	0.367	0.579	1.49	1.67	---	---	1.34	1973
1974	---	---	0.314	21.6	20.7	3.72	0.789	0.366	0.438	0.430	---	---	6.01	1974
1975	---	---	0.153	7.99	6.32	4.58	0.721	8.18	38.0	8.46	---	---	9.21	1975
1976	---	---	0.649	39.2	4.16	5.47	0.909	0.265	0.280	0.481	---	---	6.32	1976
1977	---	---	0.099	1.25	1.75	0.717	3.77	0.578	3.96	1.53	---	---	1.70	1977
1978	---	---	0.355	9.65	2.30	0.975	0.402	0.138	0.535	0.538	---	---	1.85	1978
1979	---	---	0.083	20.5	20.8	3.59	0.640	0.292	0.377	0.385	---	---	5.80	1979
1980	---	---	0.122	7.04	0.591	0.208	0.243	1.69	1.88	1.18	---	---	1.60	1980
1981	---	---	0.650	3.13	3.56	4.48	0.871	0.509	0.359	0.772	---	---	1.78	1981
1982	---	---	0.148	10.3	2.87	0.973	0.448	0.273	0.238	1.06	---	---	2.14	1982
1983	---	---	0.109	13.3	6.69	3.06	3.78	0.275	0.121	0.127	---	---	3.43	1983
1984	---	---	0.721	2.10	2.40	4.59	0.441	0.053	0.192	1.52	---	---	1.49	1984
1985	---	---	2.32	10.7	1.81	2.77	0.938	2.44	1.39	2.24	---	---	3.05	1985
1986	---	---	4.37	13.5	26.4	1.99	1.38	0.554	0.682	0.874	---	---	6.23	1986
1987	---	---	1.00	6.69	0.780	0.449	0.338	0.201	0.197	0.381	---	---	1.24	1987
1988	---	---	0.122	4.03	3.39	0.190	0.057	0.076	0.078	0.127	---	---	1.00	1988
1989	---	---	0.023	2.00	0.550	2.93	0.355	0.131	0.157	0.165	---	---	0.779	1989
1990	---	---	0.300	11.4	10.8	3.62	0.823	0.167	0.092	0.162	---	---	3.40	1990
MEAN	---	---	0.660	9.48	6.86	4.49	1.73	0.858	1.62	0.991	1.98	---	2.98	MEAN

LOCATION - LAT 50 56 40 N, LONG 099 31 15 W. DRAINAGE AREA, 938 km². NATURAL FLOW

TURTLE RIVER NEAR LAURIER - STATION NO. 05LJ007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1927	---	---	---	---	1927
1928	---	48.4 ON JUN 21	---	---	1928
1948	---	---	---	---	1948
1949	---	17.6 B ON APR 04	---	---	1949
1950	---	45.9 ON JUN 09	---	---	1950
1951	---	17.4 ON APR 29	---	---	1951
1952	---	34.8 B ON APR 08	0 ON AUG 21 *	---	1952
1953	---	86.9 E ON JUN 05	---	---	1953
1954	---	51.5 ON JUN 08	---	---	1954
1955	---	79.0 ON JUN 18	---	---	1955
1956	---	62.0 ON JUN 20	---	---	1956
1957	---	61.4 ON APR 25	0.113B ON MAR 01	65 000	1957
1958	13.1 AT 23:30 CST ON JUL 06	12.3 B ON MAR 31	0 ON AUG 19	23 200	1958
1959	21.5 AT 05:00 CST ON MAY 04	17.7 ON MAY 04	0 B ON MAR 01	32 600	1959
1960	45.0B AT 03:30 CST ON APR 13	42.5 B ON APR 13	0.057B ON MAR 01	85 000	1960
1961	---	7.42A ON MAY 07	0 B ON MAR 01	8 750	1961
1962	27.0 AT 22:50 CST ON MAY 30	20.8 ON MAY 31	0 B ON MAR 01	23 800	1962
1963	37.4B AT 18:25 CST ON APR 08	34.5 B ON APR 08	0 B ON MAR 01	65 400	1963
1964	---	25.7 B ON APR 12	0 B ON MAR 01	28 600	1964
1965	35.4B AT 12:30 CST ON APR 13	30.0 B ON APR 13	0 B ON MAR 01	60 200	1965
1966	47.6 AT 08:15 CST ON MAY 05	41.6 ON MAY 05	0.065B ON MAR 01	69 600	1966
1967	---	71.6 B ON APR 16	0 ON SEP 09	69 400	1967
1968	16.6 AT 23:45 CST ON JUL 01	12.1 ON APR 21	0.042B ON MAR 01	14 300	1968
1969	84.1B AT 20:10 CST ON APR 12	79.0 B ON APR 12	0.122B ON MAR 01	76 300	1969
1970	55.8B AT 02:45 CST ON APR 30	52.1 B ON APR 30	0.125 ON SEP 10	103 000	1970
1971	98.3 AT 20:55 CST ON JUN 06	84.4 ON JUN 07	0.031B ON MAR 01	90 400	1971
1972	---	41.9 B ON APR 12	0.017 ON SEP 01	71 400	1972
1973	17.2 AT 22:50 CST ON JUN 20	13.4 ON JUN 21	0.062 ON JUL 12	28 400	1973
1974	114 B AT 22:45 CST ON APR 20	103 B ON APR 20	0.150 ON AUG 10	127 000	1974
1975	260 AT 17:28 CST ON SEP 19 *	227 ON SEP 20 *	0.153B ON MAR 01	195 000	1975
1976	97.1B AT 22:30 CST ON APR 07	84.4 ON APR 09	0.079 ON SEP 12	134 000	1976
1977	68.5 AT 05:20 CST ON JUL 12	51.0 ON JUL 12	0.051B ON MAR 01	36 100	1977
1978	---	18.4 B ON APR 18	0.031 ON AUG 13	39 200	1978
1979	96.8 AT 00:45 CST ON APR 24	81.3 ON APR 24	0.083B ON MAR 01	123 000	1979
1980	21.7 AT 05:42 CST ON APR 06	20.8 B ON APR 06	0.009 ON AUG 02	33 900	1980
1981	16.9 AT 01:05 CST ON JUN 16	14.0 ON JUN 16	0 B ON MAR 01	37 700	1981
1982	44.9B AT 11:52 CST ON APR 15	38.2 B ON APR 15	0 B ON MAR 01	45 400	1982
1983	---	44.7 B ON APR 21	0.075 ON SEP 29	72 700	1983
1984	49.5 AT 21:28 CST ON JUN 23	38.4 ON JUN 23	0.001 ON AUG 31	31 600	1984
1985	23.9 AT 04:22 CST ON APR 03	22.0 B ON APR 03	0 B ON MAR 01	64 600	1985
1986	241 AT 09:00 CST ON MAY 06	202 ON MAY 06	0.161 ON SEP 09	132 000	1986
1987	25.5B AT 03:28 CST ON APR 08	24.2 B ON APR 07	0.095 ON SEP 08	26 300	1987
1988	19.1 AT 01:34 CST ON MAY 03	15.8 ON MAY 03	0 ON AUG 10	21 200	1988
1989	37.5 AT 14:21 CST ON JUN 13	32.3 ON JUN 13	0 B ON MAR 10	16 500	1989
1990	79.7E AT 05:50 CST ON MAY 17	67.5 E ON MAY 17	0 B ON MAR 01	72 100	1990
				63 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

TURTLE RIVER NEAR STE. ROSE DU LAC - STATION NO. 05LJ013

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	8.82	---	---	---	---	---	---	---	---	1948
1949	---	---	---	6.73	1.87	2.67	1.98	0.388	0.289	0.257	---	---	---	1949
1950	---	---	---	---	18.8	11.6	6.17	3.19	1.55	1.25	---	---	---	1950
1951	---	---	---	11.8	5.61	2.40	1.14	0.883	0.706	1.12	---	---	---	1951
MEAN	---	---	---	9.27	8.78	5.56	3.10	1.49	0.848	0.876	---	---	---	MEAN

LOCATION - LAT 51 03 35 N LONG 099 31 50 W DRAINAGE AREA, 1 090 km^2 NATURAL FLOW

TURTLE RIVER NEAR STE. ROSE DU LAC - STATION NO. 05LJ013

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	64.3 ON APR 23	---	---	1948
1949	---	22.5B ON APR 05	---	---	1949
1950	---	68.8 ON JUN 10 *	---	---	1950
1951	---	48.4 ON APR 29	---	---	1951
				---	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

TURTLEHEAD CREEK ABOVE DELORAINE RESERVOIR - STATION NO. 05MG016

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	0	0.573	0.644	0.026	0.010	0	0	0	---	---	0.156	1964
1965	---	---	0	0.693	0.253	0.301	0.226	0.042	0.073	0.066	---	---	0.205	1965
1966	---	---	0.301	0.504	0.256	0.047	0.034	0	0	0.002	---	---	0.142	1966
1967	---	---	0.019	0.148	0.128	0.017	0	0	0	0	---	---	0.039	1967
1968	---	---	0.021	0.029	0.023	0.006	0.014	0.199	0.025	0.014	---	---	0.042	1968
1969	---	---	0	2.29	0.174	0.026	0.104	0.002	0	0.002	---	---	0.320	1969
1970	---	---	0	0.566	0.518	0.018	0	0	0	0	---	---	0.137	1970
1971	---	---	0.002	0.671	0.037	0.670	0.053	0.005	0.018	0.057	---	---	0.186	1971
1972	---	---	0.779	1.54	0.233	0.189	0.005	0.013	0	0	---	---	0.342	1972
1973	---	---	0.074	0.006	0.007	0.064	0.017	0.017	0	0.010	---	---	0.024	1973
1974	---	---	0	1.50	0.792	0.155	0.025	0	0	0	---	---	0.306	1974
1975	---	---	0	1.79	0.609	0.149	0.008	0	0.089	0.162	---	---	0.347	1975
1976	---	---	0.116	2.38	0.170	0.030	0.004	0	0	0	---	---	0.332	1976
1977	---	---	0.004	0.008	0.011	0	0	0	0	0	---	---	0.003	1977
1978	---	---	0.017	0.068	0.018	0.010	0.006	0	0	0	---	---	0.015	1978
1979	---	---	0	0.347	0.167	0.029	0	0	0	0	---	---	0.067	1979
1980	---	---	0.008	0.039	0.002	0	0	0.001	0.006	0.010	---	---	0.008	1980
1981	---	0.143	0.036	0.015	0.010	0.003	0	0	0	0	---	---	0.008	1981
1982	---	---	0.039	0.499	0.074	0.039	0	0	0	0	---	---	0.080	1982
1983	---	---	0.045	0.624	0.126	0.024	0.005	0	0	0	---	---	0.102	1983
1984	---	---	0.066	0.015	0.116	0.007	0	0	0	0	---	---	0.026	1984
1985	---	---	0.254	0.495	0.113	0.146	0.082	0.001	0.001	0.003	---	---	0.136	1985
1986	---	---	0.220	0.444	0.461	0.009	0.001	0	0	0	---	---	0.143	1986
1987	---	---	0.147	0.192	0.004	0	0	0.001	0	0	---	---	0.055	1987
1988	---	---	0.004	0.[illegible]	0.009	0	0	0	0	0	---	---	0.004	1988
1989	---	---	0.011	0.142	0.001	0.004	0.001	0	0	0	---	---	0.020	1989
1990	---	---	0.021	0.038	0.005	0.001	0	0	0	0	---	---	0.008	1990
MEAN	---	0.143	0.081	0.583	0.184	0.073	0.022	0.010	0.008	0.012	---	---	0.120	MEAN

LOCATION - LAT 49 07 59 N LONG 100 23 57 W DRAINAGE AREA, 74.9 km² NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.544 AND 0 M3/S OCCURRED IN FEB

TURTLEHEAD CREEK ABOVE DELORAINE RESERVOIR - STATION NO. 05MG016

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	2.69 ON MAY 08	0B ON MAR 01 *	3 310	1964
1965	---	1.59 B ON APR 12	0B ON MAR 01	4 340	1965
1966	---	1.55 ON APR 08	0B ON MAR 01	3 020	1966
1967	---	0.371 ON APR 30	0B ON MAR 01	823	1967
1968	---	1.23 ON AUG 24	0B ON MAR 01	880	1968
1969	---	6.82 ON APR 09	0B ON MAR 01	6 770	1969
1970	---	3.20 ON APR 29	0B ON MAR 01	2 900	1970
1971	---	4.79 ON APR 07	0B ON MAR 01	3 930	1971
1972	---	2.74 ON APR 19	0B ON MAR 01	7 240	1972
1973	---	0.413 ON AUG 21	0B ON MAR 01	517	1973
1974	---	5.52 B ON APR 21	0B ON MAR 01	6 480	1974
1975	---	9.34 ON APR 28 *	0B ON MAR 01	7 350	1975
1976	---	4.64 ON APR 10	0 ON JUL 15	7 030	1976
1977	---	0.034 ON MAY 05	0B ON MAR 01	59.3	1977
1978	---	0.294B ON MAR 31	0B ON MAR 01	312	1978
1979	---	3.96 B ON APR 19	0B ON MAR 01	1 420	1979
1980	---	0.138B ON APR 06	0B ON MAR 01	176	1980
1981	---	0.094B ON MAR 01	0 ON JUN 26	169	1981
1982	3.53 AT 17:51 CST ON APR 12	2.28 B ON APR 13	0B ON MAR 01	1 700	1982
1983	2.55 B AT 16:14 CST ON APR 08	1.07 B ON APR 08	0 ON JUN 27	2 150	1983
1984	1.00 AT 19:57 CST ON MAR 24	0.531 ON MAR 24	0B ON MAR 01	542	1984
1985	4.50 B AT 04:52 CST ON MAR 23	1.68 B ON MAR 23	0B ON MAR 01	2 880	1985
1986	1.68 AT 12:51 CST ON MAY 06	1.76 ON MAY 06	0B ON MAR 01	3 020	1986
1987	4.94 B AT 20:14 CST ON MAR 21 *	1.56 B ON MAR 21	0B ON MAR 01	1 170	1987
1988	0.136B AT 15:27 CST ON APR 02	0.217B ON APR 02	0B ON MAR 01	89.5	1988
1989	3.57 B AT 19:49 CST ON APR 01	1.06 ON APR 03	0B ON MAR 01	413	1989
1990	0.796B AT 21:22 CST ON MAR 30	0.372B ON MAR 31	0B ON MAR 01	171	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 550	MEAN

TURTLEHEAD CREEK BELOW DELORAINE RESERVOIR - STATION NO. 05NG017

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	0	0.252	0.368	0.057	0.048	0	0.001	0	---	---	0.091	1964
1965	---	---	0	0.519	0.413	0.252	0.175	0.015	0.070	0.084	---	---	0.190	1965
1966	---	---	0.330	0.531	0.479	0.039	0.026	0	0	0	---	---	0.175	1966
1967	---	---	0.001	0.117	0.124	0.001	0	0	0	0	---	---	0.030	1967
1968	---	---	0.009	0.010	0.005	0.001	0	0.164	0.007	0.005	---	---	0.025	1968
1969	---	---	0	1.60	0.179	0.016	0.123	0.001	0	0.004	---	---	0.237	1969
1970	---	---	0	0.626	0.611	0.020	0.002	0	0	0	---	---	0.157	1970
1971	---	---	0.004	0.584	0.057	0.502	0.072	0	0.003	0.029	---	---	0.154	1971
1972	---	---	0.606	0.950	0.255	0.187	0.012	0.009	0	0.002	---	---	0.251	1972
1973	---	---	0.024	0.020	0.035	0.060	0.007	0.006	0.002	0.002	---	---	0.020	1973
1974	---	---	0.004	1.48	0.782	0.156	0	0	0	0	---	---	0.300	1974
1975	---	---	0	1.49	0.873	0.225	0.002	0.001	0.105	0.270	---	---	0.367	1975
1976	---	---	0.113	2.39	0.272	0.017	0	0	0	0	---	---	0.343	1976
MEAN	---	---	0.084	0.813	0.343	0.118	0.036	0.015	0.014	0.030	---	---	0.180	MEAN

LOCATION - LAT 49 09 43 N DRAINAGE AREA, 79.5 km²
LONG 100 25 03 W REGULATED

TURTLEHEAD CREEK BELOW DELORAINE RESERVOIR - STATION NO. 05NG017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	0.991 ON MAY 07	0B ON MAR 01 *	1 920	1964
1965	---	1.03 ON APR 14	0B ON MAR 01	4 020	1965
1966	---	1.29 ON APR 02	0B ON MAR 01	3 710	1966
1967	---	0.365 ON APR 30	0B ON MAR 01	643	1967
1968	---	1.42 ON AUG 18	0B ON MAR 01	536	1968
1969	---	3.65 ON APR 09	0B ON MAR 01	5 010	1969
1970	---	2.45 ON APR 29	0B ON MAR 01	3 320	1970
1971	---	2.83 B ON APR 09	0B ON MAR 01	3 260	1971
1972	---	1.74 ON APR 17	0B ON MAR 01	5 310	1972
1973	---	0.224 ON JUN 21	0B ON MAR 01	413	1973
1974	---	5.18 ON APR 21	0B ON MAR 01	6 340	1974
1975	---	9.46 ON APR 28 *	0B ON MAR 01	7 780	1975
1976	---	4.98 ON APR 06	0E ON JUN 20	7 260	1976
				3 810	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TURTLEHEAD CREEK NEAR DELORAINE - STATION NO. 05NG011

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1936	---	---	---	---	0.021	---	---	---	---	---	---	---	---	1936
1959	---	---	0.078	0.029	0.008	0.002	0	0.097	0.019	1.54	---	---	0.224	1959
1960	---	---	0.015	2.19	0.928	0.335	0	0	0	0	---	---	0.429	1960
1961	---	---	0.076	0.011	0.029	0	0	0	0	0	---	---	0.015	1961
1962	---	---	0.009	0.146	0.025	0.096	0.003	0	0	0	---	---	0.034	1962
1963	---	---	0.067	0.002	0.002	0.160	0	0	0	0	---	---	0.029	1963
MEAN	---	---	0.049	0.476	0.169	0.119	0.001	0.019	0.004	0.30	---	---	0.146	MEAN

LOCATION - LAT 49 11 18 N DRAINAGE AREA, 93.8 km²
LONG 100 26 03 W NATURAL FLOW

TURTLEHEAD CREEK NEAR DELORAINE - STATION NO. 05NG011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1936	---	---	---	---	1936
1959	---	4.02 ON OCT 17	0B ON MAR 01 *	4 740	1959
1960	---	4.53 ON MAY 27 *	0B ON MAR 21	9 080	1960
1961	---	0.496 ON MAR 21	0 ON MAR 01	309	1961
1962	---	1.03 ON APR 06	0B ON MAR 01	729	1962
1963	---	1.09 ON JUN 25	0 ON MAR 27	603	1963
				3 090	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

VALLEY RIVER AT TIMBERTON - STATION NO. 05LJ024

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	0.316	3.59	4.65	1.00	0.664	1.11	0.199	0.105	---	---	1.45	1957
1958	---	---	0.380	0.647	0.715	0.131	0.070	0.019	0.028	0.050	---	---	0.192	1958
1959	---	---	0	0.062	0.438	1.60	2.79	0.813	0.433	0.521	---	---	0.829	1959
1960	---	---	0.533	1.41	3.18	5.02	1.13	0.322	0.162	0.058	---	---	1.47	1960
1961	---	---	0.109	0.154	0.183	0.035	0.306	0.229	0.067	0.117	---	---	0.151	1961
1962	---	---	0.007	0.278	0.205	0.124	0.019	0.006	0.008	0.014	---	---	0.082	1962
1963	---	---	0.038	0.361	0.119	0.124	0.163	0.012	0.006	0.009	---	---	0.103	1963
1964	---	---	0.042	0.148	0.178	0.022	0.009	0.546	0.009	0.011	---	---	0.121	1964
1965	---	---	0.028	0.165	0.236	0.082	0.055	0.291	0.288	0.779	---	---	0.241	1965
1966	---	---	0.504	0.902	1.88	2.33	2.97	0.382	0.257	0.243	---	---	1.22	1966
1967	---	---	0.400	0.721	0.679	0.192	0.080	0.037	0.137	0.173	---	---	0.302	1967
1968	---	---	0.416	0.441	0.168	0.153	0.174	0.085	0.034	0.018	---	---	0.186	1968
1969	---	---	0.245	0.360	0.118	0.185	0.423	0.279	0.085	0.2[illegible]	---	---	0.246	1969
1970	---	---	0.368	0.707	6.25	4.02	2.96	1.80	0.682	0.508	---	---	2.17	1970
1971	---	---	0.357	1.22	2.24	1.29	1.05	0.431	0.155	0.740	---	---	0.809	1971
1972	---	---	0.756	1.06	2.92	1.62	0.673	0.220	0.108	0.238	---	---	0.949	1972
1973	---	---	0.190	1.01	0.164	0.479	1.00	0.638	0.609	1.19	---	---	0.685	1973
1974	---	---	0.443	1.43	9.19	6.52	1.77	0.591	0.272	0.466	---	---	2.58	1974
1975	---	---	0.249	1.16	7.02	5.82	2.68	0.936	1.34	2.08	---	---	2.66	1975
1976	---	---	0.447	2.57	2.95	10.9	---	---	---	---	---	---	---	1976
MEAN	---	---	0.296	0.920	2.10	2.08	0.999	0.471	0.257	0.409	---	---	0.866	MEAN

LOCATION - LAT 51 13 51 N LONG 100 57 43 W DRAINAGE AREA, 741 km² REGULATED

VALLEY RIVER AT TIMBERTON - STATION NO. 05LJ024

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	6.92 ON APR 30	0.028 ON OCT 25	30 700	1957
1958	---	1.19 B ON APR 08	0 ON AUG 04 *	4 060	1958
1959	---	4.79 ON JUN 30	0 B ON MAR 01	17 600	1959
1960	---	11.6 ON MAY 31	0.020 ON SEP 14	31 100	1960
1961	---	0.960 ON JUL 19	0 ON JUN 29	3 190	1961
1962	---	1.35 ON APR 23	0 B ON MAR 01	1 730	1962
1963	---	0.572E ON APR 18	0.006 ON AUG 11	2 190	1963
1964	---	1.90 E ON AUG 09	0.006 ON SEP 22	2 570	1964
1965	---	1.00 ON OCT 17	0.014 ON JUL 11	5 100	1965
1966	---	6.03 ON JUL 01	0.176 ON AUG 23	25 800	1966
1967	---	1.08 B ON APR 25	0.006 ON AUG 29	6 390	1967
1968	---	1.31 B ON APR 08	0.011 ON AUG 05	3 930	1968
1969	---	0.886E ON JUN 29	0.027 ON SEP 13	5 210	1969
1970	9.71 AT 07:01 CST ON MAY 19	9.26 ON MAY 19	0.368B ON MAR 01	45 900	1970
1971	3.34 AT 17:00 CST ON APR 24	2.61 ON APR 24	0.065 ON SEP 25	17 100	1971
1972	6.97 AT 01:34 CST ON MAY 21	3.38 ON MAY 21	0.037 ON SEP 16	20 100	1972
1973	3.94B AT 09:47 CST ON APR 23	2.28 B ON APR 23	0.076 ON JUN 02	14 500	1973
1974	12.4 AT 14:59 CST ON MAY 28	12.3 ON MAY 28	0.093 ON SEP 16	54 700	1974
1975	12.5 AT 09:19 CST ON MAY 11 *	11.1 ON MAY 11	0.249B ON MAR 01	56 300	1975
1976	---	21.0 E ON JUN 24 *	---	---	1976
				18 300	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

VALLEY RIVER AT VALLEY RIVER - STATION NO. 05LJ004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	---	---	---	---	1912
1913	---	---	---	---	---	---	---	---	---	---	---	---	---	1913
1914	0.113	0	0.057	45.3	18.6	7.22	41.1	8.07	3.02	1.85	5.65	---	---	1914
				5.24	31.2	8.08	1.92	0.337	0.442	0.578	1.16	0.283	4.08	
											0.336	0.227		
1915	0	0	0	2.27	1.50	2.15	2.56	0.253	0.586	1.08	0.545	0	0.914	1915
1916	0.028	0.028	0.340	13.0	12.3	22.5	11.3	1.06	1.75	1.73	1.41	0.142	5.79	1916
1917	0	0	0	10.5	23.6	6.84	14.1	4.20	1.97	0.951	0.728	0.105	5.17	1917
1918	0	0	5.67	5.45	7.88	3.09	2.13	2.51	0.883	0.816	0.752	0.192	2.48	1918
1919	0.100	0.057	0.260	8.14	9.54	2.41	8.94	1.20	1.06	1.95	0.488	0.110	2.69	1919
1920	---	---	---	---	29.4	8.25	2.27	0.603	1.24	1.29	---	---	---	1920
1921	---	---	---	---	15.3	39.6	8.12	2.34	9.02	6.36	11.9	---	---	1921
1922	---	---	1.24	39.8	66.4	11.7	2.54	0.851	1.28	---	---	---	---	1922
1923	---	---	---	---	---	---	---	---	---	1.88	1.42	---	---	1923
1924	---	---	---	---	10.5	7.45	3.56	2.09	1.40	3.34	3.06	---	---	1924
1925	---	---	---	50.7	11.4	16.8	10.4	1.32	0.481	1.12	---	---	---	1925
1926	---	---	---	---	4.42	2.67	1.30	0.306	2.31	4.93	---	---	---	1926
1927	---	---	---	---	34.7	22.9	77.1	7.35	5.67	4.06	---	---	---	1927
1928	---	---	---	10.8	13.6	28.7	23.0	5.48	2.05	---	---	---	---	1928
MEAN	0.040	0.014	1.05	19.1	19.4	12.9	10.7	2.53	2.01	2.28	2.50	0.151	3.55	MEAN

LOCATION - LAT 51 15 10 N LONG 100 08 40 W DRAINAGE AREA, 2 720 km² NATURAL FLOW

VALLEY RIVER AT VALLEY RIVER - STATION NO. 05LJ004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	---	---	---	1913
1914	---	101 ON JUL 13 66.3 ON MAY 09	0 B ON FEB 01 *	129 000	1914
1915	---	5.97 ON JUL 20	0 B ON JAN 01	28 800	1915
1916	---	64.3 ON JUN 27	0.028B ON JAN 01	183 000	1916
1917	---	41.3 ON MAY 10	0 B ON JAN 01	169 000	1917
1918	---	20.0 B ON MAR 29	0 B ON JAN 01	78 300	1918
1919	---	20.0 ON APR 10	0.028B ON DEC 19	84 800	1919
1920	---	105 B ON APR 23	---	---	1920
1921	---	118 ON JUN 17	---	---	1921
1922	---	144 ON MAY 05 *	---	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	93.7 ON APR 07	---	---	1925
1926	---	---	---	---	1926
1927	---	100 ON APR 19	---	---	1927
1928	---	73.6 ON JUN 22	---	---	1928
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		112 000	MEAN

VALLEY RIVER NEAR DAUPHIN - STATION NO. 05LJ010

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	40.7	4.35	15.7	6.10	1.01	0.501	---	---	---	1948
1949	---	---	---	7.26	2.05	5.14	2.15	1.40	0.041	0.047	---	---	---	1949
1950	---	---	---	---	8.47	6.29	3.08	1.60	0.114	1.04	---	---	---	1950
1951	---	---	---	17.6	19.3	2.59	3.26	2.09	2.71	2.73	---	---	---	1951
1952	---	---	---	20.1	3.36	1.82	0.487	0.033	0.368	0.259	---	---	---	1952
1953	---	---	---	13.1	9.49	35.4	17.7	5.44	2.63	4.11	4.54	---	---	1953
1954	---	---	---	20.5	22.2	44.6	24.8	2.65	9.27	11.2	4.61	---	---	1954
1955	---	---	---	31.0	23.6	13.1	4.58	1.67	0.378	0.581	---	---	---	1955
1956	---	---	---	13.4	40.8	13.6	13.4	3.56	2.28	1.30	---	---	---	1956
1957	---	---	1.07	28.9	13.6	3.05	1.17	1.14	0.383	0.348	---	---	6.15	1957
1958	---	---	1.39	6.56	1.04	0.575	0.408	0.035	0.015	0.034	---	---	1.24	1958
1959	---	---	1.17	5.52	2.08	6.57	5.18	0.805	0.607	0.920	---	---	2.84	1959
1960	---	---	0.283	28.7	8.92	9.21	1.32	0.295	0.038	0	---	---	6.01	1960
1961	---	---	0.259	1.10	0.844	0.090	0	0	0	0	---	---	0.286	1961
1962	---	---	0	4.59	1.13	0.511	0.022	0.001	0.001	0	---	---	0.771	1962
1963	---	---	1.28	4.19	1.35	1.76	1.20	0.048	0.001	0	---	---	1.44	1963
1964	---	---	0	3.98	2.18	0.081	0.007	0	0	0	---	---	0.775	1964
1965	---	---	0	7.77	3.15	1.31	1.76	1.84	1.67	1.33	---	---	2.34	1965
1966	---	---	0.748	23.7	9.74	4.64	5.10	0.862	0.290	0.126	---	---	5.61	1966
1967	---	---	0.297	25.1	12.8	0.954	0.184	0.022	0	0.002	---	---	4.88	1967
1968	---	---	2.98	5.28	0.583	0.128	0.019	0.015	0.008	0.003	---	---	1.12	1968
1969	---	---	0.105	14.1	1.14	0.226	2.02	0.904	0.081	0.565	---	---	2.36	1969
1970	---	---	0.487	25.5	22.1	7.70	5.51	2.91	0.445	0.889	---	---	8.16	1970
1971	---	---	0.751	24.3	3.73	8.42	2.42	0.730	0.068	1.15	---	---	5.13	1971
1972	---	---	2.58	21.2	8.86	2.61	0.854	0.425	0.557	0.608	---	---	4.67	1972
1973	---	---	0.685	1.42	0.936	1.64	1.22	0.349	1.40	2.22	---	---	1.26	1973
1974	---	---	0.504	46.6	38.4	13.0	2.14	0.661	0.426	0.573	---	---	12.7	1974
1975	---	---	0.433	24.6	18.8	11.6	3.75	1.32	5.76	4.73	---	---	8.82	1975
1976	---	---	1.32	30.0	7.04	31.3	9.36	1.66	1.14	0.201	---	---	10.1	1976
1977	---	---	0.394	2.44	1.32	0.702	0.629	0.474	1.20	3.45	---	---	1.32	1977
1978	---	---	0.644	12.3	3.23	1.19	0.561	0.381	0.270	0.279	---	---	2.33	1978
1979	---	---	0.260	44.8	22.3	12.3	1.85	0.350	0.233	0.267	---	---	10.2	1979
1980	---	---	0.283	13.0	1.22	0.213	0.054	0.132	0.070	0.108	---	---	1.85	1980
1981	---	---	1.57	2.21	1.28	1.25	3.16	0.269	0.045	0.074	---	---	1.23	1981
1982	---	---	0.046	4.48	1.48	0.484	0.285	0.684	0.117	0.514	---	---	1.00	1982
1983	---	---	0.362	34.2	9.69	15.4	9.84	1.22	0.267	0.325	---	---	8.82	1983
1984	---	---	2.11	3.81	3.24	7.29	5.75	0.551	0.197	0.430	---	---	2.91	1984
1985	---	---	0.989	21.7	4.11	3.17	0.875	1.13	1.73	2.50	---	---	4.48	1985
1986	---	---	7.14	27.1	21.4	4.30	2.95	1.56	0.459	0.628	---	---	8.16	1986
1987	---	---	1.09	27.5	2.84	0.838	0.682	0.218	0.011	0.422	---	---	4.14	1987
1988	---	---	0.371	14.3	28.0	3.27	0.501	0.041	0.013	0.127	---	---	5.83	1988
1989	---	---	0.285	1.71	0.585	1.53	0.631	0.058	0.255	0.410	---	---	0.677	1989
1990	---	---	1.60	27.6	16.2	5.25	1.53	0.128	0.023	0.438	---	---	6.55	1990
MEAN	---	---	0.985	16.9	10.4	6.73	3.68	1.07	0.851	1.06	4.58	---	4.29	MEAN

LOCATION - LAT 51 16 45 N
LONG 100 00 39 W
DRAINAGE AREA, 2 880 km^2
REGULATED

VALLEY RIVER NEAR DAUPHIN - STATION NO. 05LJ010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	225 ON APR 26	---	---	1948
1949	---	24.8 B ON APR 07	0 ON SEP 28 *	---	1949
1950	---	64.3 B ON APR 20	---	---	1950
1951	---	56.6 B ON APR 07	---	---	1951
1952	---	47.3 B ON APR 06	0 ON AUG 22	---	1952
1953	---	95.7 ON JUN 04	---	---	1953
1954	---	89.2 ON JUL 01	---	---	1954
1955	---	69.4 B ON APR 07	---	---	1955
1956	---	75.3 ON MAY 06	---	---	1956
1957	---	94.1 ON APR 25	0 ON SEP 29	130 000	1957
1958	---	24.0 B ON APR 04	0 ON AUG 15	26 300	1958
1959	---	23.8 ON JUN 19	0 B ON MAR 01	60 100	1959
1960	---	80.7 ON APR 15	0 ON SEP 20	127 000	1960
1961	---	1.96 ON APR 25	0 B ON MAR 01	6 050	1961
1962	---	34.1 B ON APR 21	0 B ON MAR 01	16 300	1962
1963	---	8.58 ON APR 08	0 B ON MAR 01	12 800	1963
1964	---	16.7 B ON APR 17	0 B ON MAR 01	16 400	1964
1965	---	36.5 ON APR 15	0 B ON MAR 01	49 500	1965
1966	---	66.8 B ON APR 03	0 ON SEP 23	119 000	1966
1967	---	143 ON APR 28	0 ON AUG 18	103 000	1967
1968	---	16.2 B ON MAR 29	0.003 ON SEP 24	23 700	1968
1969	---	85.8 B ON APR 15	0 B ON MAR 01	50 000	1969
1970	116 AT 01:35 CST ON APR 27	110 ON APR 26	0.184 ON SEP 20	173 000	1970
1971	146 B AT 05:06 CST ON APR 12	130 B ON APR 12	0.031 ON SEP 23	109 000	1971
1972	---	60.0 B ON APR 18	0.258 ON AUG 13	98 800	1972
1973	5.10 AT 00:38 CST ON OCT 05	4.76 ON OCT 05	0.116B ON MAR 15	26 600	1973
1974	289 AT 14:03 CST ON APR 20	262 ON APR 20	0.221 ON SEP 28	269 000	1974
1975	82.1 AT 16:00 CST ON APR 30	77.9 ON APR 30	0.433B ON MAR 01	187 000	1975
1976	---	91.2 ON APR 07	0.105 ON OCT 19	214 000	1976
1977	---	4.93 ON APR 15	0.127 ON JUL 07	28 000	1977
1978	---	28.1 B ON APR 13	0.113 ON AUG 12	49 200	1978
1979	464 AT 09:41 CST ON APR 23 *	385 ON APR 23 *	0.048 ON OCT 10	215 000	1979
1980	---	39.3 B ON APR 10	0 ON JUL 30	39 200	1980
1981	48.1 AT 08:44 CST ON JUL 04	38.1 ON JUL 04	0.005 ON SEP 20	26 100	1981
1982	---	13.4 B ON APR 17	0 B ON MAR 01	21 200	1982
1983	333 AT 15:05 CST ON APR 25	257 ON APR 25	0.018 ON OCT 06	187 000	1983
1984	29.4 AT 21:33 CST ON JUN 26	28.2 ON JUN 26	0 ON AUG 28	61 600	1984
1985	56.1 B AT 17:57 CST ON APR 10	47.3 ON APR 13	0.035 ON AUG 03	94 900	1985
1986	118 B AT 12:38 CST ON APR 01	101 B ON APR 01	0.387 ON SEP 20	173 000	1986
1987	195 AT 15:44 CST ON APR 07	173 ON APR 07	0 ON SEP 09	87 600	1987
1988	91.9 AT 19:30 CST ON APR 06	86.2 B ON APR 06	0 ON AUG 07	123 000	1988
1989	3.84 AT 07:37 CST ON JUN 15	3.68 ON JUN 15	0.002 ON AUG 09	14 300	1989
1990	78.0 AT 18:10 CST ON APR 20	70.9 ON APR 20	0.003 ON SEP 26	139 000	1990
				90 900	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

VALLEY RIVER NEAR GRANDVIEW - STATION NO. 05LJ021

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	6.14	21.7	9.08	10.4	2.95	1.96	0.882	---	---	---	1956
1958	---	---	0.636	2.62	0.785	0.417	0.170	0.014	0.067	0.028	---	---	0.586	1958
1959	---	---	0.243	1.90	0.781	3.05	4.15	0.801	0.506	0.765	---	---	1.52	1959
1960	---	---	0.204	14.4	5.31	6.14	1.41	0.609	0.342	0.474	---	---	3.57	1960
1961	---	---	0.352	0.597	0.470	0.073	0.178	0.069	0.027	0.024	---	---	0.224	1961
1963	---	---	---	---	---	---	---	---	0	0	---	---	---	1963
1964	---	---	0.057	1.70	1.09	0.050	0	0.503	0.003	0	---	---	0.423	1964
1965	---	---	0.071	4.25	1.70	0.915	0.551	0.480	0.730	0.919	---	---	1.19	1965
1966	---	---	0.468	9.13	4.99	3.35	3.24	0.648	0.171	0.234	---	---	2.76	1966
1967	---	---	0.427	8.96	4.45	0.448	0.133	0.074	0.001	0.318	---	---	1.84	1967
1968	---	---	1.21	6.74	0.458	0.082	0.084	0.017	0.016	0	---	---	0.584	1968
1969	---	---	0.285	7.43	0.569	0.176	1.05	0.740	0.132	0.555	---	---	1.35	1969
1970	---	---	0.365	13.0	11.3	4.27	3.47	1.95	0.492	0.646	---	---	4.43	1970
1971	---	---	0.688	10.2	5.18	4.14	1.96	0.656	0.157	0.896	---	---	2.50	1971
1972	---	---	0.790	11.8	5.14	2.30	0.689	0.508	0.543	0.573	---	---	2.77	1972
1973	---	---	0.682	1.13	0.459	0.772	0.949	0.673	0.728	1.11	---	---	0.913	1973
1974	---	---	0.606	15.1	20.1	10.2	1.84	0.603	0.236	0.336	---	---	6.10	1974
1975	---	---	0.068	13.0	12.3	8.15	3.08	0.953	3.29	3.13	---	---	5.45	1975
1976	---	---	0.681	14.1	5.15	15.5	6.28	1.59	1.22	0.219	---	---	5.54	1976
1977	---	---	0.511	1.07	0.883	0.406	0.427	0.361	0.768	2.11	---	---	0.818	1977
1978	---	---	0.728	6.84	1.92	0.925	0.523	0.506	0.250	0.259	---	---	1.48	1978
1979	---	---	0.170	14.3	11.6	10.4	2.04	0.261	0.668	0.401	---	---	4.95	1979
1980	---	---	0.362	5.57	0.936	0.136	0.088	0.161	0.017	0.191	---	---	0.921	1980
1981	---	---	0.630	0.791	0.628	0.673	2.94	0.341	0.043	0.105	---	---	0.722	1981
1982	---	---	0.180	1.99	0.862	0.279	0.126	0.309	0.134	0.716	---	---	0.582	1982
1983	---	---	0.391	10.2	4.61	6.34	5.37	1.13	0.127	0.366	---	---	3.53	1983
1984	---	---	1.07	1.56	1.43	3.42	4.37	0.542	0.387	0.165	---	---	1.62	1984
1985	---	---	0.394	11.2	3.00	2.07	0.908	0.379	1.34	1.73	---	---	2.59	1985
1986	---	---	3.82	10.8	7.73	3.20	2.58	1.69	0.665	1.25	---	---	3.95	1986
1987	---	---	0.954	9.47	1.98	0.980	0.626	0.331	0.305	0.589	---	---	1.88	1987
1988	---	---	2.34	4.70	16.8	2.69	0.249	0.445	0.286	0.424	---	---	3.51	1988
1989	---	---	0.143	0.839	0.127	0.462	0.529	0.280	0.340	0.491	---	---	0.401	1989
1990	---	---	0.582	9.44	7.50	3.60	1.15	0.269	0.277	0.422	---	---	2.89	1990
MEAN	---	---	0.652	7.09	4.97	3.27	1.91	0.654	0.492	0.616	---	---	2.31	MEAN

LOCATION - LAT 51 11 10 N LONG 100 41 40 W DRAINAGE AREA, 1 730 km² REGULATED

VALLEY RIVER NEAR GRANDVIEW - STATION NO. 05LJ021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1956	---	46.2 ON MAY 05	---	---	1956
1958	---	6.26B ON APR 04	0 ON AUG 02 *	12 400	1958
1959	---	11.1 ON JUN 17	0.028 ON SEP 23	32 200	1959
1960	---	39.6 ON APR 12	0 ON SEP 11	75 600	1960
1961	---	1.51 ON JUL 18	0 ON JUL 04	4 730	1961
1963	---	---	0 ON AUG 21	---	1963
1964	---	3.17B ON APR 16	0 ON JUN 14	8 960	1964
1965	---	14.7 ON APR 14	0 ON JUL 10	25 300	1965
1966	---	23.6 ON APR 05	0.102 ON SEP 05	58 400	1966
1967	---	17.7 ON APR 27	0 ON SEP 03	38 900	1967
1968	---	5.49B ON MAR 27	0 ON AUG 16	12 400	1968
1969	---	46.7 B ON APR 13	0.005 ON SEP 20	28 600	1969
1970	---	48.4 B ON APR 25	0.261 ON SEP 20	93 700	1970
1971	---	57.8 ON APR 10	0.037 ON SEP 21	54 600	1971
1972	---	37.9 ON APR 17	0.181E ON OCT 30	58 600	1972
1973	---	5.86 ON AUG 28	0.218 ON AUG 19	17 200	1973
1974	---	88.1 ON APR 20 *	0.026 ON SEP 19	129 000	1974
1975	---	50.4 ON APR 21	0.068B ON MAR 01	115 000	1975
1976	---	38.2 B ON APR 06	0.193 ON OCT 06	117 000	1976
1977	---	2.97 ON OCT 13	0.071 ON JUL 10	17 300	1977
1978	---	20.2 B ON APR 18	0.065 ON SEP 27	31 300	1978
1979	89.1 B AT 05:21 CST ON APR 22 *	85.7 B ON APR 22	0 ON AUG 31	105 000	1979
1980	---	15.0 B ON APR 08	0 ON JUN 24	19 500	1980
1981	58.9 AT 12:49 CST ON JUL 02	35.0 ON JUL 02	0 ON SEP 13	15 300	1981
1982	---	7.62B ON APR 16	0 ON JUL 10	12 300	1982
1983	---	79.4 A ON APR 24	0.074 ON SEP 23	74 700	1983
1984	8.93 AT 20:11 CST ON JUL 02	8.86 ON JUL 03	0.049 ON OCT 10	34 200	1984
1985	51.9 B AT 15:00 CST ON APR 11	38.3 B ON APR 11	0.037 ON AUG 09	54 900	1985
1986	---	48.7 B ON APR 02	0.431 ON SEP 01	63 600	1986
1987	73.3 B AT 20:52 CST ON APR 06	54.0 B ON APR 06	0.084 ON SEP 20	39 900	1987
1988	39.3 AT 23:06 CST ON MAY 08	38.3 ON MAY 08	0 ON JUL 16	74 200	1988
1989	2.76B AT 06:45 CST ON APR 16	1.91B ON APR 16	0.017B ON MAR 24	8 480	1989
1990	28.0 AT 18:15 CST ON APR 20	26.0 ON APR 20	0.094 ON SEP 17	61 100	1990
				48 900	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

VALLEY RIVER WEST OF GRANDVIEW - STATION NO. 05LJ010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1955	---	---	---	9.01	11.7	6.72	2.87	1.20	0.157	0.145	---	---	---	1955
MEAN	---	---	---	9.01	11.7	6.72	2.87	1.20	0.157	0.145	---	---	---	MEAN

LOCATION - LAT 51 11 05 N LONG 100 51 08 W
DRAINAGE AREA, 1 220 km²
NATURAL FLOW

VALLEY RIVER WEST OF GRANDVIEW - STATION NO. 05LJ010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1955	---	17.8B ON APR 09 *	---	---	1955
				---	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

VERMILION RIVER NEAR DAUPHIN - STATION NO. 05LJ012

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1940	---	---	---	---	13.9	0.849	3.88	0.890	0.142	0.151	---	---	---	1940
1949	---	---	---	5.09	1.01	2.10	2.36	0.528	0.053	0.115	---	---	---	1949
1950	---	---	---	5.43	11.9	6.83	4.30	0.585	0.308	0.860	---	---	---	1950
1951	---	---	---	10.0	4.41	1.19	0.495	0.330	0.460	1.65	---	---	---	1951
1952	---	---	0.332	11.3	1.16	0.373	0.175	0.101	1.31	0.395	---	---	---	1952
1953	---	---	---	10.8	9.66	19.6	3.01	0.760	1.82	1.59	0.823	---	1.86	1953
1954	---	---	---	5.00	5.60	9.42	4.25	0.760	2.02	3.11	1.08	---	---	1954
1955	---	---	---	12.7	9.70	5.55	0.851	0.158	0.110	0.225	---	---	---	1955
1956	---	---	0.028	6.82	10.2	15.2	7.80	1.14	0.743	0.567	---	---	---	1956
1957	---	---	0.126	18.5	5.12	2.23	0.372	0.241	0.219	0.213	---	---	5.28	1957
1958	---	---	0.794	2.26	2.30	0.152	0.384	0.054	0.036	0.045	---	---	3.39	1958
1959	---	---	0.476	1.64	2.97	1.70	0.675	0.048	0.087	0.457	---	---	0.516	1959
													1.00	
1960	---	---	0.113	14.2	9.69	1.85	0.092	0.066	0.034	0.039	---	---	3.24	1960
1961	---	---	0.032	0.505	0.757	0.098	0.021	0.020	0.063	0.122	---	---	0.202	1961
1962	---	---	0.028	3.61	0.636	0.473	0.066	0.092	0.121	0.070	0.104	---	0.627	1962
1963	---	---	1.31	6.96	2.75	4.09	1.01	0.101	0.157	0.065	---	---	2.03	1963
1964	---	---	0.028	6.68	3.39	0.204	0.154	0.025	0.039	0.132	---	---	1.32	1964
1965	---	---	0.100	7.32	4.98	2.51	0.768	0.184	5.70	1.26	---	---	2.82	1965
1966	---	---	2.10	10.0	8.35	0.956	0.811	0.632	0.122	0.206	---	---	3.89	1966
1967	---	---	0.108	8.90	11.6	0.848	0.101	0.261	0.061	0.100	---	---	2.74	1967
1968	---	---	1.20	1.91	1.04	0.354	1.45	1.08	0.441	0.239	---	---	0.964	1968
1969	---	---	0.139	7.29	0.984	5.62	4.01	0.176	0.166	0.574	---	---	2.34	1969
1970	---	---	0.197	10.4	18.1	3.20	1.09	0.196	0.523	0.798	---	---	4.31	1970
1971	---	---	0.198	10.6	1.43	5.31	1.63	0.565	0.163	1.23	---	---	2.65	1971
1972	---	---	1.27	10.2	4.32	0.577	0.111	0.086	0.091	0.218	---	---	2.16	1972
1973	---	---	0.454	0.741	0.379	0.420	0.059	0.044	1.75	2.78	---	---	0.827	1973
1974	---	---	0.232	26.4	24.2	2.22	0.231	0.190	0.306	0.371	---	---	6.73	1974
1975	---	---	0.088	10.2	6.01	2.65	0.451	2.09	15.9	4.21	---	---	5.14	1975
1976	---	---	0.418	21.4	2.39	10.5	0.909	0.171	0.082	0.240	---	---	4.46	1976
1977	---	---	0.102	0.910	0.484	0.102	1.21	0.341	1.93	0.855	---	---	0.739	1977
1978	---	---	0.287	10.4	2.72	1.10	0.532	0.063	0.313	0.887	---	---	2.01	1978
1979	---	---	0.080	18.8	18.6	3.02	0.461	0.055	0.078	0.108	---	---	5.13	1979
1980	---	---	0.119	3.99	0.259	0.081	0.171	0.370	0.608	0.463	---	---	0.748	1980
1981	---	---	0.689	4.57	1.98	3.24	0.314	0.035	0.014	0.380	---	---	1.02	1981
1982	---	---	0.142	7.38	1.70	0.338	0.186	0.303	0.063	1.27	---	---	1.40	1982
1983	---	---	0.096	14.2	6.46	1.99	1.29	0.411	0.064	0.077	---	---	3.09	1983
1984	---	---	0.281	0.535	3.48	0.947	0.092	0.011	0.038	0.412	---	---	0.729	1984
1985	---	---	1.43	13.5	2.27	1.47	0.234	1.58	1.22	1.85	---	---	2.91	1985
1986	---	---	4.30	9.75	17.3	0.523	0.374	0.437	0.250	0.302	---	---	4.17	1986
1987	---	---	1.63	8.43	0.594	0.258	0.220	0.185	0.020	0.022	---	---	1.43	1987
1988	---	---	0.177	3.55	10.1	0.554	0.093	0.011	0.002	0.004	---	---	1.82	1988
1989	---	---	C.220	0.536	0.336	3.18	0.251	0.098	0.733	0.304	---	---	0.698	1989
1990	---	---	0.765	11.4	8.73	2.81	0.827	0.244	0.140	0.112	---	---	3.11	1990
MEAN	---	---	0.569	8.38	5.89	2.95	1.11	0.364	0.893	0.675	0.669	---	2.40	MEAN

LOCATION - LAT 51 11 00 N LONG 100 00 45 W
DRAINAGE AREA, 674 km²
REGULATED SINCE 1979

VERMILION RIVER NEAR DAUPHIN - STATION NO. 05LJ012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	66.3 ON APR 25	---	---	1948
1949	---	17.9 ON APR 12	---	---	1949
1950	---	41.1 ON MAY 14	---	---	1950
1951	---	48.7 ON APR 29	---	---	1951
1952	---	39.4 B ON APR 07	0 B ON MAR 01 *	39 300	1952
1953	---	75.0 ON JUN 03	---	---	1953
1954	---	34.5 ON JUN 09	---	---	1954
1955	---	37.9 ON MAY 05	---	---	1955
1956	---	148 ON JUN 19	0.028B ON MAR 01	112 000	1956
1957	---	103 ON APR 25	0.085B ON MAR 01	71 700	1957
1958	---	7.59B ON MAR 29	0 B ON MAR 01	10 900	1958
1959	---	9.43 ON MAY 04	0 B ON MAR 01	21 300	1959
1960	---	44.5 ON MAY 27	0.034 ON AUG 28	68 500	1960
1961	---	2.41 ON MAY 09	0.008 ON AUG 07	4 280	1961
1962	---	26.2 ON APR 18	0.028B ON MAR 01	13 300	1962
1963	---	27.8 B ON APR 08	0 B ON MAR 01	43 000	1963
1964	---	22.6 ON APR 27	0 ON JUL 27	27 900	1964
1965	---	42.5 ON APR 12	0.003E ON MAR 01	59 800	1965
1966	---	40.8 B ON MAR 31	0.085B ON MAR 01	61 200	1966
1967	---	38.8 B ON APR 16	0 ON AUG 30	57 900	1967
1968	---	8.16 ON JUL 03	0 ON JUN 24	20 400	1968
1969	---	40.8 ON JUN 28	0.001 ON SEP 16	49 600	1969
1970	---	62.0 B ON APR 26	0.026 ON SEP 07	91 200	1970
1971	---	31.7 B ON APR 11	0.040 ON SEP 04	58 000	1971
1972	---	30.3 ON APR 22	0 ON SEP 14	45 800	1972
1973	---	13.5 ON OCT 04	0 ON AUG 01	17 500	1973
1974	---	170 ON APR 20 *	0 ON JUL 21	143 000	1974
1975	186 AT 01:04 CST ON SEP 20	153 ON SEP 20	0.048 ON JUL 18	109 000	1975
1976	---	87.2 ON JUN 14	0.037 ON SEP 16	94 500	1976
1977	---	9.71 ON JUL 12	0.008 ON JUL 08	15 600	1977
1978	---	26.6 B ON APR 10	0.025 ON SEP 06	42 600	1978
1979	209 AT 10:12 CST ON APR 22 *	164 ON APR 22	0 ON AUG 07	109 000	1979
1980	31.0 B AT 07:20 CST ON APR 05	27.6 B ON APR 05	0.004E ON SEP 03	15 800	1980
1981	11.2 AT 11:57 CST ON MAY 30	10.7 ON MAY 30	0 ON AUG 23	21 600	1981
1982	23.9 AT 11:30 CST ON APR 18	20.3 ON APR 18	0 B ON MAR 01	29 700	1982
1983	96.0 AT 12:32 CST ON APR 24	84.2 ON APR 24	0 ON SEP 16	65 300	1983
1984	9.09 AT 21:51 CST ON MAY 13	8.67 ON MAY 13	0 B ON MAR 01	15 400	1984
1985	50.8 B AT 08:25 CST ON APR 03	40.2 B ON APR 03	0.077 ON AUG 11	61 700	1985
1986	134 AT 20:32 CST ON MAY 06	103 ON MAY 07	0.147B ON MAR 11	88 300	1986
1987	50.1 B AT 18:46 CST ON APR 04	36.7 B ON APR 04	0 ON SEP 01	30 200	1987
1988	56.2 AT 01:42 CST ON MAY 04	45.5 ON MAY 03	0 ON SEP 08	36 500	1988
1989	25.8 AT 07:05 CST ON JUN 14	23.6 ON JUN 14	0.013 ON AUG 10	14 800	1989
1990	35.9 AT 17:17 CST ON MAY 17	32.9 ON APR 24	0.010B ON MAR 02	65 900	1990
				50 900	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WASKADA CREEK NEAR CRANMER - STATION NO. 05NF014

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	1.69	0.246	0.048	0.170	0	0	0	---	---	0.265	1974
1975	---	---	0	1.78	0.281	0.050	0	0	0.001	0.068	---	---	0.269	1975
1976	---	---	1.45	1.86	0.020	0	0	0	0	0	---	---	0.413	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.070	0	0	0	0	0	0	---	---	0.009	1978
1979	---	---	0	0.801	0.004	0	0	0	0	0	---	---	0.099	1979
1980	---	---	0	0.001	0	0	0	0	0.452	0.015	---	---	0.057	1980
1981	---	0.238	0.056	0	0	0	0	0	0	0	---	---	0.007	1981
1982	---	---	0.011	0.582	0	0.014	0	0	0	0.013	---	---	0.076	1982
1983	---	---	0.264	0.334	0.002	0	0	0	0	0	---	---	0.075	1983
1984	---	---	0.019	0.001	0.020	0	0	0	0	0.004	---	---	0.006	1984
1985	---	---	1.77	0.132	0	0.102	0.010	0	0	0	---	---	0.254	1985
1986	---	---	0.205	0.089	0.027	0	0.018	0.001	0	0	---	---	0.042	1986
1987	---	---	0.457	0.033	0	0	0	0	0	0	---	---	0.062	1987
1988	---	---	0.003	0.007	0	0	0	0	0	0	---	---	0.001	1988
1989	---	---	0.401	0.485	0	0.003	0.044	0	0	0	---	---	0.116	1989
1990	---	---	0.005	0.029	0	0.012	0.082	0	0	0	---	---	0.016	1990
MEAN	---	0.238	0.273	0.464	0.035	0.013	0.019	0	0.027	0.006	---	---	0.104	MEAN

LOCATION - LAT 49 07 40 N DRAINAGE AREA, 110 km^2
LONG 100 42 50 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.12 AND 0 M3/S OCCURRED IN FEBRUARY

WASKADA CREEK NEAR CRANMER - STATION NO. 05NF014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	7.67 ON APR 11	OB ON MAR 01 *	5 610	1974
1975	---	8.75 ON APR 29	OB ON MAR 01	5 690	1975
1976	---	19.3 ON MAR 31 *	OB ON MAR 01	8 730	1976
1977	---	0 B ON MAR 01	OB ON MAR 01	0	1977
1978	---	0.665B ON APR 04	OB ON MAR 01	182	1978
1979	---	9.88 B ON APR 19	OB ON MAR 01	2 090	1979
1980	3.97 AT 20:21 CST ON SEP 13	3.33 ON SEP 14	OB ON MAR 01	1 220	1980
1981	---	0.500B ON MAR 01	0 ON MAR 25	151	1981
1982	9.87 AT 00:29 CST ON APR 13	5.82 ON APR 13	OB ON MAR 01	1 610	1982
1983	2.54 B AT 11:10 CST ON APR 01	1.02 B ON MAR 31	OB ON MAR 01	1 580	1983
1984	1.45 AT 12:03 CST ON MAY 05	0.586 ON MAY 05	OB ON MAR 01	118	1984
1985	10.5 AT 15:54 CST ON MAR 20 *	8.92 ON MAR 19	OB ON MAR 01	5 370	1985
1986	4.17 B AT 06:36 CST ON APR 19	0.870 ON APR 19	OB ON MAR 01	898	1986
1987	7.20 B AT 12:31 CST ON MAR 21	4.64 B ON MAR 21	OB ON MAR 01	1 310	1987
1988	0.146B AT 10:07 CST ON APR 03	0.100B ON APR 03	OB ON MAR 01	26.9	1988
1989	7.86 B AT 21:37 CST ON APR 01	5.08 ON APR 02	OB ON MAR 01	2 450	1989
1990	1.06 AT 23:46 CST ON JUL 08	0.894 ON JUL 09	OB ON MAR 01	339	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 200	MEAN

WASKADA CREEK NORTH OF CRANMER - STATION NO. 05NF011

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	0.141	0.169	0.051	0	0.121	0.121	0	---	---	0.075	1965
1966	---	---	0.251	0.016	0.123	0.037	0.293	0	0	0	---	---	0.091	1966
1967	---	---	0.150	0.076	0.024	0	0	0	0	0	---	---	0.031	1967
1968	---	---	0.013	0	0	0	0	0.022	0.015	0	---	---	0.006	1968
1969	---	---	0	1.35	0.014	0	0.013	0	0	0	---	---	0.169	1969
1970	---	---	0.253	0.533	0.068	0	0	0	0	0	---	---	0.106	1970
1971	---	---	0	0.056	0	0.360	0.194	0	0	0	---	---	0.075	1971
1972	---	---	0.337	0.142	0.001	0.436	0	0.002	0	0	---	---	0.114	1972
1973	---	---	0.011	0	0	0.003	0	0	0	0	---	---	0.002	1973
MEAN	---	---	0.113	0.257	0.044	0.099	0.056	0.016	0.015	0	---	---	0.074	MEAN

LOCATION - LAT 49 07 06 N, LONG 100 41 20 W DRAINAGE AREA, 89.1 km^2, NATURAL FLOW

WASKADA CREEK NORTH OF CRANMER - STATION NO. 05NF011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	2.09 ON AUG 27	0 ON MAR 01 *	1 590	1965
1966	---	1.14 ON JUL 06	OB ON MAR 01	1 930	1966
1967	---	0.762B ON MAR 29	OB ON MAR 01	663	1967
1968	---	0.266 ON AUG 27	OB ON MAR 01	131	1968
1969	---	7.42 ON APR 10 *	OB ON MAR 01	3 570	1969
1970	---	3.11 ON MAR 28	OB ON MAR 01	2 240	1970
1971	---	2.73 ON JUN 15	OB ON MAR 01	1 590	1971
1972	---	3.68 ON JUN 15	OB ON MAR 01	2 410	1972
1973	---	0.159 ON MAR 12	0 ON MAR 01	37.1	1973
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 570	MEAN

WATERHEN RIVER AT BERNARDIN'S FARM - STATION NO. 05LH002

MONTHLY AND ANNUAL MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1923	---	---	---	---	---	---	---	---	156	154	158	---	---	1923
1924	---	---	---	75.9	109	165	134	103	89.5	93.3	94.3	---	113	1924
1925	---	---	---	53.3	129	204	102	151	148	127	---	---	142	1925
1926	---	---	---	70.8	101	142	97.4	76.0	88.4	84.9	---	---	88.5	1926
1927	---	---	---	---	104	182	177	148	152	152	---	---	---	1927
1928	---	---	---	---	126	194	157	124	104	---	---	---	---	1928
MEAN	---	---	---	66.7	114	181	149	120	120	118	126	---	115	MEAN

LOCATION - LAT 51 48 50 N, LONG 099 32 00 W DRAINAGE AREA, 55 100 km^2, NATURAL FLOW

WATERHEN RIVER AT BERNARDIN'S FARM - STATION NO. 05LH002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1923	---	---	---	---	1923
1924	---	213 ON JUN 05	63.1 ON APR 26	2 080 000	1924
1925	---	354 ON JUN 21 *	43.3B ON APR 01	2 630 000	1925
1926	---	215 ON JUN 07	41.9 ON OCT 07 *	1 640 000	1926
1927	---	221 ON JUN 09	---	---	1927
1928	---	249 ON JUN 08	---	---	1928
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 120 000	MEAN

WATERHEN RIVER AT MCCREERY'S FARM - STATION NO. 05LH004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1928	---	---	---	---	---	---	---	---	---	94.3	---	---	---	1928
1929	---	---	---	---	80.8	115	91.7	61.2	40.5	37.4	---	---	---	1929
1930	---	---	---	---	69.8	80.9	63.5	47.3	40.5	---	---	---	---	1930
MEAN	---	---	---	---	75.3	98.0	77.6	54.2	40.5	65.9	---	---	---	MEAN

LOCATION - LAT 51 50 00 N LONG 099 33 00 W DRAINAGE AREA, 55 100 km² NATURAL FLOW

WATERHEN RIVER AT MCCREERY'S FARM - STATION NO. 05LH004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1928	---	---	---	---	1928
1929	---	---	---	---	1929
1930	---	102 ON JUN 15 *	---	---	1930
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

WATERHEN RIVER NEAR WATERHEN - STATION NO. 05LH005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1950	---	---	---	---	---	---	---	---	---	---	68.7	28.5	---	1950
1951	19.6	14.0	8.29	---	---	113	99.5	83.3	80.5	73.3	51.4	42.6	---	1951
1952	24.9	17.3	11.9	---	---	148	120	102	91.6	102	90.1	68.6	---	1952
1953	42.1	27.5	22.0	31.8	116	150	200	189	204	198	202	179	131	1953
1954	144	123	117	159	248	277	---	---	286	291	273	249	---	1954
1955	168	139	127	233	295	317	277	234	193	176	149	106	202	1955
1956	88.5	87.3	72.5	111	168	190	167	161	163	163	148	88.5	134	1956
1957	60.7	38.7	28.7	68.1	159	146	132	116	103	93.1	90.8	57.6	91.4	1957
1958	30.8	17.3	15.8	79.8	102	99.1	78.2	63.1	54.3	52.7	44.2	11.1	54.2	1958
1959	3.88	0.413	0.058	16.0	67.5	96.5	88.0	71.4	69.8	73.6	44.3	32.1	47.2	1959
1960	24.6	16.0	8.17	44.7	115	138	124	104	79.8	71.4	75.8	27.0	69.2	1960
1961	12.4	3.04	3.79	35.1	84.5	82.5	61.5	39.5	28.4	21.9	19.1	3.40	33.1	1961
1962	0.037	0	0	2.35	52.6	44.0	36.4	19.9	18.9	21.8	14.8	4.21	18.0	1962
1963	0.195	0.009	0.165	11.5	34.0	32.1	27.4	15.8	11.2	11.2	7.62	0.546	12.7	1963
1964	0.071	0.122	0.142	4.04	26.8	26.1	13.7	12.8	13.3	16.2	16.9	3.37	11.1	1964
1965	0.077	0.025	0	4.65	51.5	69.0	76.6	62.4	60.3	66.7	55.4	39.0	40.7	1965
1966	28.6	21.4	9.14	29.5	108	136	141	119	126	122	68.9	59.5	83.1	1966
1967	58.2	52.9	52.3	82.6	151	180	172	151	115	108	92.0	55.6	107	1967
1968	39.5	26.2	18.1	68.0	125	118	111	108	103	109	87.2	34.1	80.0	1968
1969	33.4	25.1	19.8	70.0	123	122	100	88.9	72.1	73.5	55.3	37.5	68.7	1969
1970	28.0	17.3	10.2	18.6	98.3	125	134	130	117	118	116	79.9	83.1	1970
1971	66.5	53.8	47.0	107	190	176	150	129	110	117	92.4	64.4	109	1971
1972	47.6	42.8	34.6	72.7	173	169	154	133	115	102	72.9	30.3	95.8	1972
1973	15.3	6.53	7.50	54.6	105	127	124	106	99.4	95.6	68.0	40.9	71.2	1973
1974	27.5	22.0	17.9	39.4	172	207	181	160	149	139	126	95.5	112	1974
1975	74.6	56.8	51.7	91.4	174	183	157	135	129	129	128	76.7	116	1975
1976	62.8	54.0	45.6	110	159	169	158	141	123	113	82.5	40.6	105	1976
1977	26.4	16.4	14.3	68.1	122	113	96.8	91.6	91.6	92.8	77.6	47.6	71.8	1977
1978	35.3	23.9	17.6	56.5	126	123	101	83.0	70.7	73.7	58.4	30.9	67.0	1978
1979	17.6	9.85	7.45	17.3	110	180	171	146	125	120	88.1	64.7	88.6	1979
1980	52.4	41.5	30.0	96.6	133	105	79.7	67.8	62.4	60.6	53.0	23.5	67.1	1980
1981	19.6	6.83	8.06	38.1	71.8	72.4	56.8	39.7	23.2	18.7	29.5	21.7	33.7	1981
1982	2.71	0.425	0.626	6.45	61.9	74.4	69.2	52.2	44.2	49.8	33.1	12.4	34.2	1982
1983	11.9	7.46	5.42	8.77	104	131	113	120	107	100	86.8	46.7	72.1	1983
1984	23.7	17.8	18.2	95.7	167	171	151	124	108	109	74.9	52.7	93.0	1984
1985	34.0	33.4	36.3	106	152	149	125	116	111	107	70.6	33.9	89.8	1985
1986	25.8	19.0	15.5	84.0	163	158	138	125	109	102	67.9	45.6	88.1	1986
1987	45.2	36.1	37.5	108	124	117	103	97.2	90.0	88.5	73.1	58.3	81.7	1987
1988	30.9	13.9	11.0	81.0	170	169	142	119	104	92.0	69.0	41.1	87.1	1988
1989	22.0	10.8	4.81	32.2	92.3	87.7	70.2	56.1	58.7	53.3	44.7	15.8	45.9	1989
1990	1.91	1.22	1.04	8.80	91.3	128	120	97.3	82.9	71.7	59.4	27.4	57.9	1990
MEAN	36.2	27.3	23.4	61.9	126	136	119	103	97.5	94.9	78.7	51.2	77.1	MEAN

LOCATION - LAT 51 51 10 N LONG 099 32 50 W DRAINAGE AREA, 55 000 km² NATURAL FLOW

WATERHEN RIVER NEAR WATERHEN - STATION NO. 05LH005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1950	---	---	---	---	1950
1951	---	---	---	---	1951
1952	---	---	---	---	1952
1953	---	---	---	---	1953
1954	---	269 ON SEP 03	19.3 B ON MAR 26	4 120 000	1954
		---	112 B ON APR 01	---	
1955	---	337 ON JUN 09 *	89.2 B ON DEC 25	6 360 000	1955
1956	---	224 ON MAY 30	59.5 B ON MAR 22	4 240 000	1956
1957	---	200 ON MAY 21	25.8 B ON MAR 22	2 890 000	1957
1958	---	178 ON MAY 26	5.78 B ON DEC 30	1 710 000	1958
1959	152 AT 14:30 CST ON JUN 28	132 ON JUN 28	0 B ON FEB 17 *	1 490 000	1959
1960	173 AT 15:00 CST ON JUN 01	153 ON JUN 14	7.08 B ON MAR 28	2 190 000	1960
1961	---	102 ON MAY 24	0.045B ON DEC 25	1 040 000	1961
1962	---	97.7E ON MAY 18	0 B ON JAN 30	569 000	1962
1963	80.7 ON MAY 20	64.0 ON MAY 10	0 B ON FEB 17	401 000	1963
1964	69.7 AT 13:50 CST ON MAY 19	44.5 ON MAY 11	0.059B ON JAN 07	352 000	1964
1965	129 AT 08:00 CST ON MAY 26	122 ON MAY 26	0 B ON MAR 04	1 280 000	1965
1966	177 AT 18:45 CST ON JUN 02	158 ON JUN 02	3.77 B ON MAR 31	2 620 000	1966
1967	246 AT 11:05 CST ON JUN 21	220 ON JUN 21	41.6 B ON DEC 31	3 180 000	1967
1968	209 AT 17:15 CST ON MAY 15	187 ON MAY 15	15.8 B ON MAR 22	2 530 000	1968
1969	174 AT 03:54 CST ON MAY 19	146 ON MAY 31	17.6 B ON APR 04	2 170 000	1969
1970	202 AT 10:36 CST ON MAY 25	185 ON MAY 25	8.92 B ON APR 01	2 620 000	1970
1971	235 AT 13:47 CST ON MAY 29	219 ON MAY 10	44.7 B ON MAR 25	3 430 000	1971
1972	236 AT 16:19 CST ON JUN 14	203 ON JUN 14	22.9 B ON DEC 27	3 030 000	1972
1973	173 AT 20:54 CST ON JUN 19	162 ON JUN 19	2.97 B ON MAR 02	2 250 000	1973
1974	261 AT 20:21 CST ON JUN 14 *	227 ON JUN 14	9.15 B ON APR 15	3 530 000	1974
1975	217 AT 22:51 CST ON JUN 04	206 ON JUN 05	50.7 B ON MAR 15	3 650 000	1975
1976	242 AT 19:38 CST ON JUN 13	189 ON JUN 14	34.8 B ON DEC 28	3 320 000	1976
1977	170 AT 18:16 CST ON JUN 30	159 ON MAY 10	13.0 B ON MAR 08	2 270 000	1977
1978	153 AT 17:00 CST ON MAY 31	150 ON MAY 31	15.7 B ON MAR 26	2 110 000	1978
1979	229 AT 23:30 CST ON JUN 21	206 ON JUN 21	5.29 B ON APR 11	2 790 000	1979
1980	155 E ON MAY 05	155 E ON MAY 05	12.9 B ON DEC 31	2 120 000	1980
1981	135 AT 04:15 CST ON JUN 18	103 ON JUN 18	0.173B ON FEB 16	1 060 000	1981
1982	125 AT 04:53 CST ON JUN 07	109 ON JUN 07	0.360B ON FEB 20	1 080 000	1982
1983	175 AT 16:08 CST ON MAY 20	160 ON JUN 15	2.73 B ON APR 05	2 270 000	1983
1984	210 AT 08:58 CST ON MAY 11	196 ON JUN 23	16.9 B ON MAR 11	2 940 000	1984
1985	---	207 E ON JUN 27	29.0 B ON DEC 31	2 830 000	1985
1986	205 AT 18:28 CST ON MAY 31	204 A ON JUN 03	13.9 B ON MAR 13	2 780 000	1986
1987	170 AT 14:49 CST ON OCT 01	137 ON MAY 20	13.6 B ON FEB 25	2 580 000	1987
1988	227 AT 16:26 CST ON MAY 12	197 ON JUN 01	10.1 B ON FEB 27	2 760 000	1988
1989	156 AT 16:44 CST ON MAY 25	126 ON MAY 25	3.74 B ON MAR 24	1 450 000	1989
1990	166 AT 18:49 CST ON JUN 02	156 ON JUN 02	0.406B ON MAR 02	1 830 000	1990
				2 430 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WEIR RIVER ABOVE THE MOUTH - STATION NO. 05UH002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	1.72	1.34	1.11	---	---	8.35	5.94	4.50	10.1	8.23	5.47	1.97	---	1977
1978	0.976	0.690	0.500	0.509	48.1	17.9	35.1	48.4	47.8	33.3	10.3	3.64	20.8	1978
1979	1.69	0.976	0.676	0.857	24.0	57.9	61.7	18.7	14.5	22.1	6.52	2.81	17.8	1979
1980	1.24	0.890	0.768	20.2	42.2	43.5	50.4	54.1	44.9	26.5	3.54	2.67	24.3	1980
1981	2.14	1.60	1.18	0.915	52.1	34.0	16.3	16.9	8.66	20.6	4.70	2.09	13.5	1981
1982	1.64	1.23	0.830	1.33	82.4	59.6	18.1	18.3	19.1	19.4	7.53	4.38	19.6	1982
1983	3.42	2.27	1.65	1.13	25.1	147	19.7	21.0	54.3	30.1	11.1	5.44	26.8	1983
1984	3.56	2.45	1.51	36.3	81.4	42.5	11.7	5.61	4.69	5.44	2.72	1.55	16.6	1984
1985	1.10	0.899	0.724	15.6	---	---	---	5.47	4.71	5.57R	2.60R	0.974R	---	1985
1986	0.891	0.715	0.667	0.659	83.2	49.2	33.2	50.9	26.0	13.2	6.14	2.77	22.5	1986
1987	1.79	1.37	1.16	27.9	32.5	13.7	5.99	1.90	15.4	11.8	5.49	1.83	10.1	1987
1988	1.24	0.992	0.883	0.827	88.5	59.8	31.2	17.9	11.7	9.54	7.90	4.10	19.6	1988
1989	1.50	0.749	0.520	0.524	---	79.6	---	---	---	12.4	7.18	2.03	---	1989
1990	0.853	0.757	0.679	0.617	---	---	16.1	---	---	---	7.67	3.97	---	1990
MEAN	1.68	1.21	0.918	8.26	55.9	51.1	25.4	21.9	21.8	16.8 R	6.48R	2.87 R	19.2 R	MEAN

LOCATION - LAT 57 01 33 N, LONG 093 26 54 W
DRAINAGE AREA, 2 180 km^2
NATURAL FLOW
R - REVISED SINCE JAN 01 1989

WEIR RIVER ABOVE THE MOUTH - STATION NO. 05UH002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	---	---	---	1977
1978	---	---	---	---	1978
1979	128 AT 23:17 CST ON JUL 17	114 ON AUG 16	0.453B ON MAR 23	655 000	1979
		124 ON JUL 17	0.612B ON MAR 28	561 000	
1980	---	134 ON JUL 28	0.736B ON MAR 22	769 000	1980
1981	---	114 B ON MAY 21	0.850B ON APR 12	424 000	1981
1982	---	213 B ON MAY 05	0.283B ON APR 25 *	619 000	1982
1983	---	349 E ON MAY 31 *	0.565B ON MAY 20	844 000	1983
1984	219 AT 18:00 CST ON MAY 19 *	217 ON MAY 19	1.10 B ON APR 08	526 000	1984
1985	---	---	0.600B ON DEC 13	---	1985
1986	---	185 E ON MAY 17	0.655B ON APR 26	710 000	1986
1987	---	99.7B ON APR 24	1.03 B ON APR 10	318 000	1987
1988	---	144 E ON MAY 22	0.820B ON APR 06	621 000	1988
1989	---	---	0.510B ON MAR 17	---	1989
1990	---	---	0.595B ON APR 30	---	1990
				605 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WEST SQUIRREL CREEK NEAR AUSTIN - STATION NO. 05LL001

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	1.72	0.561	---	---	---	---	---	---	---	---	1962
1963	---	---	0.285	0.600	0.554	0.034	0.241	0.160	0.059	0	---	---	0.319	1963
1964	---	---	0.008	0.812	0.379	0.331	0.147	0.080	0.513	0.099	---	---	0.293	1964
1965	---	---	0.068	1.23	0.610	0.485	0.250	0.060	0.323	0.198	---	---	0.400	1965
1966	---	---	0.827	0.871	0.653	0.102	0.060	0.072	0.012	0.023	---	---	0.328	1966
1967	---	---	0.037	0.934	0.316	0.123	0.051	0.036	0.028	0.039	---	---	0.193	1967
1968	---	---	0.193	0.409	0.337	0.239	0.087	0.211	0.425	0.139	---	---	0.254	1968
1969	---	---	0.003	1.08	0.481	0.318	0.442	0.113	0.093	0.178	---	---	0.336	1969
1970	---	---	0.018	1.67	1.09	0.324	0.245	0.047	0.097	0.079	---	---	0.443	1970
1971	---	---	0.023	1.62	0.517	0.443	0.328	0.097	0.206	0.425	---	---	0.454	1971
1972	---	---	0.320	0.810	0.492	0.368	0.064	0.123	0.106	0.071	---	---	0.293	1972
1973	---	---	0.171	0.181	0.302	0.356	0.319	0.152	0.146	0.142	---	---	0.221	1973
1974	---	---	0.051	2.08	1.08	0.157	0.005	0.035	0.130	0.127	---	---	0.454	1974
1975	---	---	0.064	1.05	0.525	0.159	0.032	0.231	0.335	0.197	---	---	0.322	1975
1976	---	---	0.156	1.92	0.180	0.118	0.026	0.033	0.005	0.069	---	---	0.309	1976
1977	---	---	0.015	0.237	0.149	0.090	0.079	0.049	0.109	0.099	---	---	0.103	1977
1978	---	---	0.088	0.733	0.273	0.077	0.115	0.017	0.101	0.074	---	---	0.183	1978
1979	---	---	0.087	1.31	1.13	0.323	0.062	0.024	0.024	0.054	---	---	0.375	1979
1980	---	---	0.042	0.612	0.081	0.010	0.019	0.235	0.045	0.218	---	---	0.157	1980
1981	---	0.236	0.200	0.157	0.146	0.304	0.046	0.092	0.122	0.168	---	---	0.154	1981
1982	---	---	0.031	0.513	0.244	0.203	0.591	0.036	0.026	0.202	---	---	0.230	1982
1983	---	---	0.001	1.48	0.294	0.173	0.082	0.018	0.049	0.072	---	---	0.267	1983
1984	---	---	0.163	0.300	0.276	0.224	0.015	0.016	0	0.243	---	---	0.154	1984
1985	---	---	0.376	0.584	0.229	0.190	0.087	0.235	0.129	0.195	---	---	0.253	1985
1986	---	---	0.713	1.03	0.793	0.129	0.445	0.117	0.110	0.101	---	---	0.430	1986
1987	---	---	0.313	0.915	0.109	0.050	0.102	0.220	0.063	0.094	---	---	0.232	1987
1988	---	---	0.128	0.320	0.312	0.046	0.088	0.037	0.058	0.069	---	---	0.132	1988
1989	---	---	0.001	0.454	0.170	0.272	0.062	0.042	0.049	0.043	---	---	0.135	1989
1990	---	---	0.317	0.547	0.494	0.489	0.272	0.052	0.028	0.029	---	---	0.278	1990
MEAN	---	0.236	0.162	0.903	0.440	0.248	0.156	0.094	0.121	0.123	---	---	0.276	MEAN

LOCATION - LAT 49 58 00 N LONG 098 56 50 W DRAINAGE AREA, 136 km²
NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGES OF .633 AND 0 M3/S OCCURRED IN FEB

WEST SQUIRREL CREEK NEAR AUSTIN - STATION NO. 05LL001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	9.60 ON APR 17	---	---	1962
1963	---	2.94 ON JUN 11	0 B ON MAR 01 *	7 180	1963
1964	---	5.66 ON SEP 02	0 ON AUG 17	6 200	1964
1965	---	7.28 ON APR 13	0 ON AUG 16	8 460	1965
1966	---	3.23 B ON MAR 31	0.003 ON JUL 21	6 930	1966
1967	---	1.66 B ON APR 15	0 ON AUG 04	4 090	1967
1968	---	1.13 B ON MAR 27	0 ON JUL 15	5 370	1968
1969	---	8.30 ON APR 12	0.003B ON MAR 01	7 110	1969
1970	---	15.6 ON APR 26 *	0 ON AUG 23	9 380	1970
1971	---	6.57 B ON APR 08	0.006 ON AUG 31	9 610	1971
1972	---	1.59 B ON APR 12	0 ON OCT 16	6 200	1972
1973	1.64 AT 17:57 CST ON JUL 26	1.29 ON JUL 26	0.037 ON AUG 30	4 670	1973
1974	9.23 B AT 19:00 CST ON APR 17 *	7.50 ON APR 18	0 ON JUL 03	9 620	1974
1975	3.31 B AT 14:00 CST ON APR 16	2.31 ON APR 29	0.003 ON AUG 06	6 810	1975
1976	---	4.79 ON APR 07	0 ON JUL 29	6 540	1976
1977	0.677 AT 23:35 CST ON MAY 19	0.510 ON MAY 20	0 B ON MAR 01	2 180	1977
1978	1.28 B AT 21:58 CST ON APR 12	1.26 B ON APR 10	0 ON AUG 10	3 870	1978
1979	7.76 AT 16:49 CST ON APR 21	5.77 ON APR 21	0 ON AUG 27	7 940	1979
1980	---	1.96 B ON APR 06	0 ON JUN 04	3 320	1980
1981	---	0.633B ON MAR 30	0 ON JUL 28	3 260	1981
1982	3.81 AT 00:49 CST ON JUL 19	3.69 ON JUL 18	0 B ON MAR 01	4 880	1982
1983	7.96 B AT 15:16 CST ON APR 09	6.67 B ON APR 09	0 B ON MAR 01	5 660	1983
1984	2.64 AT 10:26 CST ON APR 14	1.93 ON APR 14	0 B ON MAR 01	3 270	1984
1985	4.43 AT 18:11 CST ON APR 04	2.30 B ON APR 04	0 B ON MAR 01	5 350	1985
1986	5.59 AT 04:44 CST ON MAY 07	4.32 ON MAY 07	0.030 ON JUL 09	9 110	1986
1987	3.99 B AT 17:33 CST ON APR 05	3.35 B ON APR 06	0.010 ON JUN 20	4 910	1987
1988	1.25 B AT 17:23 CST ON APR 05	0.977B ON APR 05	0.012 ON JUN 24	2 800	1988
1989	---	1.29 B ON APR 04	0 B ON MAR 01	2 860	1989
1990	2.81 B AT 16:47 CST ON APR 01	2.42 B ON APR 01	0 B ON MAR 01	5 880	1990
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		5 840	MEAN

WHIRLPOOL RIVER AT DANVERS - STATION NO. 05MF009

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	---	0.432	0.272	0.064	0.171	0.657	0.114	---	---	1915
1916	---	---	---	3.53	2.57	2.39	1.93	0.376	0.244	0.486	0.572	0.283	---	1916
1917	---	---	---	1.42	2.17	0.295	0.343	0.122	0.452	0.104	0.126	---	---	1917
1918	---	---	---	0.729	0.749	0.496	0.184	0.217	0.810	0.172	0.146	0.085	---	1918
1919	0.057	0.028	0.057	2.55	1.05	0.255	0.413	0.174	0.523	---	---	---	---	1919
MEAN	0.057	0.028	0.057	2.06	1.63	0.774	0.628	0.191	0.440	0.355	0.240	0.184	---	MEAN

LOCATION - LAT 50 33 50 N LONG 099 53 30 W DRAINAGE AREA, 208 km²
NATURAL FLOW

WHIRLPOOL RIVER AT DANVERS - STATION NO. 05MF009

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	---	---	---	1915
1916	---	---	---	---	1916
1917	---	---	---	---	1917
1918	---	---	---	---	1918
1919	---	2.75 ON MAY 27 *	---	---	1919
		---	---	---	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMOUTH RIVER AT WHITEMOUTH - STATION NO. 05PH001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	56.5	26.8	20.1	21.7	49.1	46.2	28.3	2.83	---	1912
1913	---	---	---	45.3	21.7	11.9	16.8	11.1	6.49	16.9	6.41	1.42	---	1913
1914	0.425	0.283	0.566	12.7	24.2	30.5	20.1	3.14	4.66	17.0	7.76	2.10	10.3	1914
1915	0.532	0.342	0.683	13.1	31.4	19.7	12.6	2.36	1.26	7.56	5.94	2.83	8.24	1915
1916	0.999	0.615	0.443	58.0	42.9	24.3	30.2	11.5	7.96	9.36	10.1	1.42	17.5	1916
1917	0.670	0.622	0.466	20.3	23.7	6.20	4.85	5.56	4.62	1.99	1.54	0.537	5.94	1917
1918	---	---	---	8.78	9.37	18.4	6.00	3.99	1.29	2.97	15.3	2.56	---	1918
1919	0.657	0.531	2.84	27.6	16.9	8.50	58.7	7.04	11.3	7.80	3.23	1.05	12.3	1919
1920	0.207	0.165	0.764	21.2	36.5	44.9	4.95	0.278	0.542	4.75	3.95	1.24	9.92	1920
1921	0.941	1.01	1.32	54.0	34.4	13.8	18.9	23.3	20.8	12.8	5.88	1.66	16.1	1921
1922	0.839	0.634	0.848	25.1	79.2	27.8	14.5	14.7	18.9	9.13	18.1	---	---	1922
1923	---	---	---	---	67.7	21.2	13.5	10.2	6.96	7.05	3.40	---	---	1923
1924	---	---	---	---	50.6	20.2	7.87	11.8	3.36	9.66	---	---	---	1924
1925	---	---	---	42.5	30.5	93.0	33.6	11.8	11.2	18.0	---	---	---	1925
1926	---	---	---	8.76	8.79	35.2	30.4	14.0	20.5	39.3	10.4	---	---	1926
1927	---	---	---	---	122	40.2	19.2	4.95	7.83	17.0	15.6	---	---	1927
1928	---	---	---	---	13.7	48.7	66.0	22.7	9.11	5.67	4.26	3.82	---	1928
1929	2.89	3.40	5.10	7.51	8.87	14.0	9.63	2.75	3.09	3.52	---	---	---	1929
1930	---	---	---	---	60.2	16.7	11.5	1.51	1.45	3.12	---	---	---	1930
1931	---	---	---	29.2	97.5	7.99	4.80	0.884	1.41	2.66	4.28	---	---	1931
1932	---	---	---	---	24.4	3.15	2.29	1.16	0.568	1.88	---	---	---	1932
1933	---	---	---	---	55.4	19.4	0.635	0.478	0.631	0.657	---	---	---	1933
1934	---	---	---	---	10.5	3.47	0.914	0.629	0.741	1.11	---	---	---	1934
1935	---	---	---	---	20.4	8.10	3.88	1.27	1.23	2.28	---	---	---	1935
1936	---	---	---	---	14.9	3.85	0.711	0.520	0.977	---	---	---	---	1936
MEAN	0.907	0.845	1.45	26.7	35.4	22.7	16.7	7.65	7.84	10.3	9.53	1.95	11.5	MEAN

LOCATION - LAT 49 57 15 N LONG 095 58 00 W DRAINAGE AREA, 3 740 km^2 NATURAL FLOW

WHITEMOUTH RIVER AT WHITEMOUTH - STATION NO. 05PH001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	---	---	---	1913
1914	---	80.7 ON APR 12	---	---	1914
		63.7 ON JUN 04	0.283B ON FEB 01	326 000	
1915	---	48.7 ON MAY 12	---	---	1915
1916	---	146 ON APR 21	0.283RB ON FEB 15	260 000	1916
1917	---	42.5 ON APR 23	0.396 ON MAR 22	554 000	1917
1918	---	43.6 ON JUN 04	0.113B ON DEC 29	187 000	1918
1919	---	150 ON JUL 04	---	---	1919
			0.311B ON FEB 02	387 000	
1920	---	81.8 ON JUN 01	---	---	1920
1921	---	85.0B ON APR 14	0.028 ON AUG 28 *	314 000	1921
1922	---	130 ON MAY 20	0.793B ON JAN 01	508 000	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	122 ON JUN 06	---	---	1925
1926	---	101 ON JUN 25	---	---	1926
1927	---	164 ON MAY 12 *	---	---	1927
1928	---	107 ON JUL 11	---	---	1928
1929	---	25.0 ON MAY 31	---	---	1929
1930	---	125 ON MAY 15	---	---	1930
1931	---	---	---	---	1931
1932	---	---	---	---	1932
1933	---	85.2B ON APR 24	---	---	1933
1934	---	---	---	---	1934
1935	---	---	---	---	1935
1936	---	---	---	---	1936
				362 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1989

WHITEMOUTH RIVER BELOW OUTLET OF WHITEMOUTH LAKE - STATION NO. 05PH006

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	---	---	0.139	0.063	0.056	0.133	0.272	0.380	---	---	---	1973
1974	---	---	0	0.743	3.20	3.08	1.51	1.21	1.37	1.34	---	---	1.55	1974
1975	---	---	1.37	1.35	1.68	1.29	1.02	0.580	0.478	0.481	---	---	1.03	1975
1976	---	---	0.685	0.884	0.700	0.424	0.230	0.106	0.051	0.027	---	---	0.388	1976
1977	---	---	0.004	0.060	0.104	0.058	0.045	0.021	0.024	0.065	---	---	0.048	1977
1978	---	---	0	0.301	0.561	0.280	0.154	0.064	0.030	0.002	---	---	0.174	1978
1979	---	---	0	0.112	0.401	0.331	0.130	0.066	0.056	0.032	---	---	0.141	1979
1980	---	---	0.009	0.084	0.075	0.013	0.004	0.011	0.013	0.005	---	---	0.027	1980
MEAN	---	---	0.295	0.505	0.858	0.692	0.394	0.274	0.287	0.292	---	---	0.480	MEAN

LOCATION - LAT 49 16 50 N DRAINAGE AREA, 297 km²
LONG 095 36 40 W REGULATED

WHITEMOUTH RIVER BELOW OUTLET OF WHITEMOUTH LAKE - STATION NO. 05PH006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	---	---	---	1973
1974	4.30 AT 12:00 CST ON MAY 23 *	4.19 ON MAY 23 *	0 B ON MAR 01 *	32 900	1974
1975	2.06 AT 03:25 CST ON MAY 05	2.03 ON MAY 04	0.422 ON OCT 13	21 800	1975
1976	1.45 AT 18:32 CST ON APR 17	1.16 ON APR 17	0.003B ON OCT 30	8 200	1976
1977	0.311 AT 16:21 CST ON MAY 05	0.170 ON MAY 16	0 B ON MAR 01	1 010	1977
1978	0.688B AT 09:28 CST ON APR 20	0.674 ON APR 27	0 B ON MAR 01	3 670	1978
1979	0.516 AT 05:00 CST ON JUN 02	0.470 ON MAY 11	0 B ON MAR 01	2 980	1979
1980	0.191 AT 23:59 CST ON APR 23	0.189 ON APR 23	0 ON JUL 11	567	1980
				10 200	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMOUTH RIVER NEAR WHITEMOUTH - STATION NO. 05PH003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1942	---	---	---	---	---	13.9	2.72	1.60	19.3	6.80	---	---	---	1942
1943	---	---	---	32.0	40.5	64.7	32.4	6.97	3.28	3.26	---	---	---	1943
1944	---	---	---	---	15.7	59.7	28.5	18.2	26.8	10.7	22.6	---	---	1944
1945	---	---	---	57.7	36.6	24.1	19.2	3.21	16.5	14.0	---	---	---	1945
1946	---	---	---	33.7	26.1	6.74	4.91	0.600	2.77	9.87	---	---	---	1946
1947	---	---	---	---	38.6	45.5	14.4	28.3	11.7	22.6	---	---	---	1947
1948	---	---	---	47.4	53.7	10.1	19.2	23.8	4.64	1.26	---	---	---	1948
1949	---	---	0	24.7	25.9	6.14	1.86	7.42	2.78	23.6	26.7	---	---	1949
1950	---	---	---	---	144	43.6	28.0	4.42	18.8	36.0	---	---	---	1950
1951	---	---	2.46	29.0	37.9	14.2	2.17	1.14	4.34	5.85	---	---	---	1951
1952	---	---	0.186	4.98	1.33	1.12	4.56	1.06	0.360	0.419	---	---	---	1952
1953	---	---	0.664	7.63	7.10	24.3	12.1	1.20	1.48	1.59	---	---	---	1953
1954	---	---	0.085	23.7	48.6	37.0	7.93	1.07	7.81	9.14	6.71	---	---	1954
1955	---	---	---	55.3	31.3	26.4	5.55	0.348	0.288	0.961	---	---	---	1955
1956	---	---	0.283	16.0	45.5	18.5	21.3	10.9	27.9	10.7	26.5	2.57	---	1956
1957	1.25	1.01	3.75	37.1	42.8	45.3	24.1	2.33	1.45	1.87	1.72	0.829	13.6	1957
1958	0.657	0.827	1.75	3.22	2.47	2.03	22.6	6.20	1.27	3.43	9.18	2.89	4.74	1958
1959	0.263	0.347	0.452	27.8	47.6	49.1	13.5	15.5	29.8	60.5	16.3	3.62	22.1	1959
1960	1.95	0.921	0.987	67.5	30.0	23.8	7.12	2.35	2.26	1.03	4.53	0.991	12.6	1960
1961	0.221	0.310	0.979	11.0	17.0	5.10	0.700	0.343	0.284	2.45	1.74	0.447	3.40	1961
1962	0.305	0.292	0.214	12.5	70.9	67.1	31.9	36.1	13.4	8.66	9.99	4.81	21.7	1962
1963	1.35	1.15	1.56	46.6	45.7	58.4	16.8	7.55	1.38	0.699	0.530	0.333	15.3	1963
1964	0.224	0.159	0.321	21.6	44.4	29.1	12.8	5.04	9.36	25.4	8.13	2.79	13.3	1964
1965	1.20	0.701	0.600	46.3	65.1	36.8	36.4	7.12	11.4	26.1	18.4	13.9	22.1	1965
1966	7.21	2.46	3.52	85.7	101	33.9	34.2	5.13	11.5	7.63	5.22	4.15	25.1	1966
1967	1.81	0.888	3.17	75.2	51.2	15.2	8.22	5.12	0.453	0.475	0.293	0.477	11.5	1967
1968	0.444	0.208	2.55	17.1	19.4	12.6	23.9	11.1	17.3	14.5	9.87	4.14	12.0	1968
1969	1.21	1.78	1.92	51.3	36.2	21.3	15.3	5.49	3.43	8.73	4.09	1.30	12.7	1969
1970	0.806	0.716	0.640	29.4	108	67.3	11.3	2.62	5.15	7.90	15.2	2.08	20.9	1970
1971	1.26	1.01	1.21	33.8	20.8	20.2	11.1	4.08	1.34	2.47	9.63	1.98	9.84	1971
1972	0.485	0.366	1.09	24.8	31.3	7.21	1.13	0.475	1.39	3.76	4.30	0.360	8.29	1972
1973	0.216	0.152	2.53	4.47	5.73	37.0	20.1	19.4	18.1	44.4	15.4	7.00	14.6	1973
1974	1.48	0.646	0.577	89.2	134	40.6	3.44	6.33	9.05	8.43	4.73	1.78	25.1	1974
1975	1.93	1.58	1.77	22.8	43.4	29.7	21.8	1.91	1.61	1.94	1.90	0.834	11.0	1975
1976	0.557	0.443	0.812	40.2	21.3	17.6	8.18	0.538	0.948	1.53	0.124	0.088	7.65	1976
1977	0.202	0.251	0.448	1.39	1.89	7.34	4.43	0.767	7.08	10.2	5.55	2.80	3.54	1977
1978	1.05	0.354	0.385	51.1	41.4	11.1	12.2	2.20	0.668	0.886	0.639	0.385	10.4	1978
1979	0.304	0.252	0.275	32.3	58.1	25.5	2.13	0.312	0.258	0.502	0.583	0.368	10.1	1979
1980	0.440	0.334	0.143	8.15	3.53	0.486	0.246	0.490	1.99	4.62	2.97	0.474	1.98	1980
1981	0.328	0.748	1.05	1.92	3.29	16.7	6.55	1.53	20.5	24.6	13.6	3.62	7.85	1981
1982	0.333	0.162	0.496	34.4	33.7	20.7	37.7	14.1	2.86	19.3	8.20	1.45	14.5	1982
1983	0.493	0.382	2.01	20.4	28.5	25.7	13.9	1.74	0.312	0.699	9.818	0.586	7.99	1983
1984	0.176	0.144	1.98	4.70	5.05	39.0	14.3	2.28	0.199	7.41	7.30	0.971	6.93	1984
1985	0.355	0.327	4.07	16.4	27.1	19.1	14.3	5.28	11.6	11.5	5.22	1.26	9.75	1985
1986	0.645	0.341	5.05	56.9	78.8	7.43	4.06	4.47	2.01	3.60	2.51	1.97	13.9	1986
1987	1.17	0.657	4.59	32.5	8.29	3.40	4.87	1.50	0.353	0.642	0.558	0.324	4.90	1987
1988	0.128	0.092	0.213	3.86	0.769	0.304	5.11	1.80	0.462	0.325	0.374	0.250	1.24	1988
1989	0.048	0.138	0.233	11.1	21.2	32.0	15.9	12.0	5.29	2.62	1.63	0.745	8.60	1989
1990	0.428	0.162	2.47	8.36	20.0	53.6	11.9	0.715	0.108	0.164	0.275	0.197	8.18	1990
MEAN	0.910	0.597	1.49	30.3	38.3	26.5	13.8	6.30	7.03	9.71	7.21	1.96	11.7	MEAN

LOCATION - LAT 49 56 20 N
LONG 095 57 20 W

DRAINAGE AREA, 3 750 km²
NATURAL FLOW

WHITEMOUTH RIVER NEAR WHITEMOUTH - STATION NO. 05PH003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1942	---	---	---	---	1942
1943	---	94.6 ON JUN 17	---	---	1943
1944	---	79.6 ON JUN 19	---	---	1944
1945	---	89.2 ON MAR 28	---	---	1945
1946	---	---	---	---	1946
1947	---	73.1 ON JUN 14	---	---	1947
1948	---	132 ON APR 28	---	---	1948
1949	---	47.0 ON OCT 23	0 B ON MAR 01 *	---	1949
1950	---	212 ON MAY 13	---	---	1950
1951	---	55.8 ON MAY 04	---	---	1951
1952	---	8.99 ON JUL 05	---	---	1952
1953	---	15.7 ON JUN 07	---	---	1953
1954	---	92.9 ON MAY 02	---	---	1954
1955	---	86.7 ON APR 23	---	---	1955
1956	---	64.0 ON MAY 14	---	---	1956
1957	---	89.5 ON APR 26	0.481B ON DEC 31	430 000	1957
1958	---	34.5 ON JUL 25	0.196B ON JAN 07	150 000	1958
1959	---	121 ON JUN 12	0.142B ON JAN 22	698 000	1959
1960	---	172 ON APR 17	0.541B ON DEC 26	397 000	1960
1961	---	22.4 ON MAY 14	0.023B ON JAN 25	107 000	1961
1962	---	168 ON MAY 26	0.127B ON FEB 27	686 000	1962
1963	---	81.8 B ON APR 09	0.272B ON DEC 30	483 000	1963
1964	---	77.0 ON MAY 09	0.127B ON FEB 20	420 000	1964
1965	---	100 B ON APR 15	0.340B ON FEB 25	697 000	1965
1966	---	140 ON APR 18	1.72 B ON DEC 27	791 000	1966
1967	---	117 ON APR 25	0.142B ON NOV 26	427 000	1967
1968	---	68.2 ON JUN 11	0.099B ON FEB 20	403 000	1968
1969	---	97.4 B ON APR 12	0.651B ON JAN 03	400 000	1969
1970	---	127 A ON MAY 01	0.493B ON MAR 14	659 000	1970
1971	---	53.5 ON APR 27	0.255 ON APR 05	310 000	1971
1972	59.7B AT 13:10 CST ON APR 18	50.1 ON APR 29	0.159B ON MAR 15	202 000	1972
1973	---	101 ON JUN 20	0.122B ON FEB 27	460 000	1973
1974	239 AT 01:02 CST ON APR 27 *	237 ON APR 24 *	0.493B ON MAR 30	791 000	1974
1975	64.0 AT 11:15 CST ON JUL 03	63.7 ON JUL 03	0.603B ON DEC 29	146 000	1975
1976	54.9 AT 20:33 CST ON APR 20	54.7 ON APR 20	0.068B ON DEC 05	242 000	1976
1977	---	22.8 ON JUN 20	0.144B ON JAN 01	113 000	1977
1978	---	105 ON APR 21	0.303B ON FEB 17	327 000	1978
1979	---	89.0 B ON APR 21	0.149 ON AUG 24	318 000	1979
1980	---	12.9 B ON APR 08	0.107 ON AUG 03	62 700	1980
1981	51.5 AT 12:00 CST ON SEP 10	52.9 ON SEP 10	0.009B ON FEB 12	248 000	1981
1982	117 B AT 21:09 CST ON APR 18	92.1 B ON APR 18	0.009B ON FEB 04	459 000	1982
1983	46.4 AT 02:10 CST ON MAY 15	46.0 ON MAY 15	0.038B ON MAR 27	252 000	1983
1984	63.1 AT 06:47 CST ON JUN 14	62.5 ON JUN 14	0.038B ON FEB 12	219 000	1984
1985	48.1 AT 17:42 CST ON JUN 30	45.7 ON JUL 01	0.030B ON MAR 16	307 000	1985
1986	132 AT 16:20 CST ON MAY 05	131 ON MAY 05	0.065B ON MAR 10	437 000	1986
1987	47.7 AT 02:04 CST ON APR 16	47.7 ON APR 16	0.211 ON SEP 18	154 000	1987
1988	---	13.0 ON JUL 11	0.066B ON FEB 24	36 200	1988
1989	56.5 AT 10:30 CST ON JUN 16	54.7 ON JUN 16	0.009B ON JAN 11	271 000	1989
1990	82.1 AT 09:17 CST ON JUN 04	80.6 ON JUN 04	0.050 ON SEP 07	256 000	1990
				369 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMUD RIVER AT WESTBOURNE - STATION NO. 05LL002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	4.77	29.9	19.6	11.3	3.78	1.70	1.09	3.43	---	---	---	1972
1973	---	---	4.00	4.66	5.81	4.12	1.72	2.14	3.54	4.39	1.95	1.27	---	1973
1974	0.883	0.301	0.437	57.7	53.7	23.3	6.21	1.21	1.08	1.99	2.45	1.17	12.5	1974
1975	0.801	0.574	0.742	18.2	22.3	6.63	1.39	4.91	14.4	14.0	12.0	4.95	8.43	1975
1976	3.15	2.39	1.74	112	43.2	9.90	2.46	0.786	0.606	3.24	1.20	0.214	15.0	1976
1977	0.187	0.257	1.33	4.80	5.75	5.54	1.63	1.40	3.55	2.60	1.75	0.828	2.48	1977
1978	0.793	0.623	1.13	24.6	8.77	5.49	1.56	0.869	0.824	2.67	4.26	1.50	4.41	1978
1979	0.753	0.481	0.630	56.5	93.4	31.8	9.39	2.53	1.35	1.54	1.89	1.39	16.9	1979
1980	0.765	0.884	0.806	9.75	3.16	1.13	0.632	4.12	1.81	3.55	2.84	1.49	2.57	1980
1981	0.511	1.34	1.15	5.30	3.74	5.85	0.921	0.750	0.662	2.45	2.39	0.948	2.33	1981
1982	0.185	0.181	0.526	15.0	10.2	4.29	4.37	1.44	0.984	1.11	2.09	0.720	3.57	1982
1983	0.651	0.516	0.497	50.4	16.7	7.90	3.01	0.915	0.438	1.99	3.47	1.14	7.27	1983
1984	0.281	0.409	2.41	6.59	6.57	3.23	1.03	0.433	0.267	3.63	1.07	0.718	2.22	1984
1985	0.406	0.297	4.19 R	14.9 R	4.78	2.27	1.12	2.35	1.75	3.17	2.28	1.35	3.24 R	1985
1986	0.877	0.925	9.42	29.5	35.7	15.1	9.13	2.89	1.25	3.28	1.88	1.22	9.21	1986
1987	0.791	0.126	2.39	39.0	7.84	3.27	1.20	4.63	0.708	1.52	1.68	1.17	5.39	1987
1988	0.226	0.126	0.971	5.33	3.92	0.948	0.791	0.149	0.189	0.489	0.625	0.385	1.18	1988
1989	0.175	0.207	0.236	5.58	1.99	2.93	0.714	0.414	0.190	0.392	0.659	0.262	1.14	1989
1990	0.210	0.286	1.49	8.10	5.70	3.54	1.41	0.349	0.160	0.350	0.563	0.298	1.87	1990
MEAN	0.697	0.619	2.10 R	26.2 R	18.6	7.71	2.87	1.79	1.82	3.04	2.50	1.17	5.87 R	MEAN

LOCATION - LAT 50 08 03 N LONG 098 35 00 W DRAINAGE AREA 6 380 km^2 REGULATED SINCE 1960

R - REVISED SINCE JAN 01 1989

WHITEMUD RIVER AT WESTBOURNE - STATION NO. 05LL002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	---	---	1972
1973	15.5 AT 00:43 CST ON SEP 08	14.6 ON SEP 08	---	---	1973
1974	---	244 A ON APR 20	0.221B ON FEB 18	395 000	1974
1975	63.1 AT 05:19 CST ON MAY 03	62.0 ON MAY 03	0.518B ON FEB 01	266 000	1975
1976	179 AT 22:27 CST ON APR 20	177 ON APR 21	0.105B ON DEC 09	474 000	1976
1977	13.3 AT 23:30 CST ON MAY 22	13.2 ON MAY 23	0.153B ON JAN 27	78 100	1977
1978	---	40.5B ON APR 16	0.436B ON JAN 31	139 000	1978
1979	314 AT 07:30 CST ON APR 25 *	305 ON APR 25 *	0.376B ON FEB 27	532 000	1979
1980	21.3 AT 10:43 CST ON AUG 21	17.6B ON APR 11	0.236 ON AUG 02	81 300	1980
1981	13.0B AT 06:15 CST ON APR 04	12.3B ON APR 06	0.209 ON SEP 21	73 500	1981
1982	---	53.9B ON APR 19	0.064B ON JAN 25	111 000	1982
1983	105 B AT 07:19 CST ON APR 11	96.4B ON APR 11	0.150B ON MAR 28	229 000	1983
1984	13.9 AT 23:40 CST ON MAY 06	13.6 ON MAY 06	0.057 ON SEP 07	70 300	1984
1985	59.3B AT 23:17 CST ON MAR 25	24.5RB ON APR 07	0.108B ON MAR 16	102 000	1985
1986	78.5 AT 22:49 CST ON MAY 07	77.1 ON MAY 07	0.692 ON NOV 08	290 000	1986
1987	95.4 AT 14:17 CST ON APR 07	85.7 ON APR 10	0.352B ON JAN 24	170 000	1987
1988	23.0 AT 16:47 CST ON APR 08	20.7 ON APR 08	0 E ON AUG 24 *	37 300	1988
1989	---	10.2E ON APR 08	0 ON JUL 23	36 000	1989
1990	18.9B AT 16:45 CST ON APR 04	16.6B ON APR 04	0 ON OCT 04	59 000	1990
				185 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1989

WHITEMUD RIVER NEAR GLADSTONE - STATION NO. 05LL004

MONTHLY AND ANNUAL MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1943	---	---	1.88	9.79	1.81	3.79	2.76	0.870	0.117	0.239	---	---	2.74	1943
1944	---	---	---	1.03	1.27	3.02	2.38	0.273	0.362	0.402	0.484	---	1.25	1944
1945	---	---	---	2.81	2.02	0.990	0.722	0.116	0.102	0.271	---	---	1.00	1945
1946	---	---	---	5.79	1.13	0.462	0.402	0.059	0.059	0.406	---	---	1.17	1946
1947	---	---	---	8.97	2.42	1.81	2.24	0.362	0.106	0.158	---	---	2.28	1947
1948	---	---	---	9.72	3.99	0.498	0.293	0.428	0.087	0.174	---	---	2.15	1948
1949	---	---	---	7.82	1.36	0.754	0.346	0.464	0.038	0.287	0.606	---	1.56	1949
1950	---	---	---	3.12	6.54	3.70	2.98	0.794	0.394	0.405	---	---	2.57	1950
1951	---	---	---	5.20	0.47	1.52	0.290	0.260	0.292	0.666	---	---	1.52	1951
1952	---	---	---	3.59	0.840	2.56	2.23	0.348	1.26	0.333	0.343	---	1.44	1952
1953	---	---	---	10.3	4.51	6.41	1.87	0.386	0.254	0.388	0.243	---	3.42	1953
1954	---	---	0.057	7.45	2.69	6.48	1.98	0.262	1.05	1.97	0.801	---	3.10	1954
1955	---	---	0.225	13.9	4.65	3.38	2.26	0.297	0.292	0.579	---	---	3.60	1955
1956	---	---	0.085	12.9	16.0	8.00	7.77	0.933	0.435	1.37	---	---	6.76	1956
1957	---	---	3.30	6.18	3.25	2.08	1.48	0.614	0.441	0.637	---	---	2.09	1957
MEAN	---	---	1.11	7.24	3.66	2.96	2.00	0.431	0.353	0.552	0.495	---	2.44	MEAN

LOCATION - LAT 50 13 05 N, LONG 098 55 26 W
DRAINAGE AREA, 1 890 km^2
NATURAL FLOW

REMARKS - HIGHER MAXIMUM DISCHARGES ARE KNOWN TO HAVE OCCURRED OUTSIDE THE STANDARD PERIOD IN 1945 AND 1957

WHITEMUD RIVER NEAR GLADSTONE - STATION NO. 05LL004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1943	---	---	---	---	
1944	---	19.5 ON APR 10	0.068 ON SEP 29	50 700	1943
		8.69 ON JUL 01	0.085B ON APR 01	23 000	1944
1945	---	13.7 ON APR 01	0.023 ON SEP 08	18 500	1945
1946	---	27.2 ON APR 01	0 ON SEP 17 *	21 700	1946
1947	---	25.0 B ON APR 15	0.040 ON AUG 13	42 100	1947
1948	---	32.1 B ON APR 21 *	0.008 ON SEP 24	39 800	1948
1949	---	16.3 B ON APR 10	0.003 ON SEP 11	28 900	1949
1950	---	13.6 ON MAY 13	0.266 ON OCT 05	47 400	1950
1951	---	12.6 B ON APR 08	0.142 ON AUG 11	28 000	1951
1952	---	10.9 ON JUL 02	0.198 ON AUG 19	26 700	1952
1953	---	29.4 B ON APR 07	0.198 ON SEP 08	63 300	1953
1954	---	24.7 B ON APR 15	0.057B ON APR 01	57 300	1954
1955	---	24.4 B ON APR 09	0.085 ON AUG 20	66 500	1955
1956	---	31.7 ON APR 28	0.085 ON AUG 23	125 000	1956
1957	---	16.2 ON APR 26	0.142 ON OCT 01	38 600	1957
				45 200	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMUD RIVER NEAR KEYES - STATION NO. 05LL005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	3.56	1.21	0.527	0.367	0.052	0.103	0.928	---	---	---	1958
1959	---	---	0.509	3.03	1.47	0.660	0.253	0.021	0.269	0.658	---	---	---	1959
1960	---	---	0.170	37.9	5.01	1.76	0.418	0.134	0.140	0.518	---	---	---	1960
1961	---	---	0.529	1.46	1.57	0.634	0.040	0.067	0.348	0.578	---	---	---	1961
1962	---	---	0.114	11.2	2.49	1.53	0.511	0.614	0.417	0.498	0.542	0.182	---	1962
1963	0.003	0	3.42	5.58	1.42	2.40	2.24	0.163	0.120	0.380	0.427	---	---	1963
1964	---	---	0.265	3.41	3.04	0.657	0.318	0.198	0.247	0.179	0.143	0.097	---	1964
1965	0.108	0.153	0.199	21.2	3.76	2.06	2.15	1.22	2.60	0.977	0.666	0.548	2.95	1965
1966	0.302	0.193	4.39	9.13	4.02	1.43	0.270	0.254	0.367	0.099	0.489	0.355	1.78	1966
1967	0.268	0.209	0.240	16.8	3.60	0.682	0.223	0.117	0.094	0.197	0.205	0.146	1.88	1967
1968	0.098	0.208	1.80	2.26	1.12	0.487	0.319	0.740	0.689	0.496	0.533	0.158	0.743	1968
1969	0.158	0.242	0.329	28.1	3.60	1.61	8.46	2.26	0.587	1.06	1.00	0.383	3.97	1969
1970	0.194	0.294	0.319	34.0	24.9	3.53	1.55	0.397	0.467	0.738	0.907	0.337	5.63	1970
1971	0.311	0.260	0.321	6.89	2.77	10.4	9.22	1.23	0.437	2.18	1.41	0.521	3.00	1971
1972	0.253	0.209	3.35	16.5	4.82	1.29	0.542	0.270	0.157	0.386	0.454	0.116	2.35	1972
1973	0.156	0.197	1.45	1.41	1.60	1.07	0.389	0.682	2.43	1.34	0.708	0.441	0.991	1973
1974	0.253	0.280	0.421	32.9	16.9	3.00	0.380	0.148	0.170	0.433	0.485	0.265	4.62	1974
1975	0.305	0.304	0.348	11.3	9.47	1.99	0.361	2.91	6.23	2.09	1.34	0.610	3.10	1975
1976	0.640	0.614	0.549	31.4	2.67	1.75	0.377	0.045	0.024	0.246	0.251	0.130	3.18	1976
1977	0.144	0.167	0.551	1.37	1.98	1.40	2.70	0.703	2.17	1.34	0.786	0.387	1.15	1977
1978	0.383	0.220	0.291	10.5	3.31	1.24	0.286	0.170	0.246	0.356	0.348	0.266	1.46	1978
1979	0.231	0.172	0.300	34.0	24.6	3.97	1.09	0.154	0.133	0.366	0.333	0.206	5.46	1979
1980	0.173	0.196	0.241	4.61	0.576	0.246	0.170	0.994	0.627	0.793	0.821	0.297	0.807	1980
1981	0.144	1.26	1.04	1.55	0.988	0.969	0.293	0.307	0.167	0.647	0.629	0.259	0.682	1981
1982	0.081	0.089	0.189	5.80	2.10	0.901	1.79	0.369	0.229	0.601	0.456	0.184	1.07	1982
1983	0.198	0.103	0.181	24.7 R	3.92	1.18	0.749	0.202	0.282	0.400	0.292	0.148	2.68 R	1983
1984	0.100	0.203	0.556	1.82	2.21	0.727	0.191	0.136	0.219	0.675	0.299	0.159	0.608	1984
1985	0.091	0.081	0.779	5.84	0.886	0.524	0.312	0.877	0.513	0.742	0.438	0.274	0.944	1985
1986	0.273	0.258	4.67	9.46	8.77	0.625	1.21	0.208	0.182	0.367	0.287	0.355	2.23	1986
1987	0.239	0.238	0.733	16.4	0.614	0.382	0.533	1.69	0.301	0.447	0.397	0.304	2.01	1987
1988	0.056	0.152	0.467	1.53	1.30	0.244	0.098	0.136	0.089	0.177	0.146	0.130	0.377	1988
1989	0.111	0.094	0.149	1.04	0.450	0.497	0.148	0.141	0.099	0.176	0.173	0.137	0.267	1989
1990	0.138	0.145	0.901	5.60	2.73	0.677	0.300	0.100	0.086	0.151	0.154	0.126	0.924	1990
MEAN	0.200	0.242	0.930	12.2 R	4.54	1.55	1.16	0.597	0.644	0.642	0.521	0.269	2.11 R	MEAN

LOCATION - LAT 50 11 15 N DRAINAGE AREA 1 850 km²
LONG 099 06 10 W REGULATED SINCE 1960

R - REVISED SINCE JAN 01 1989

WHITEMUD RIVER NEAR KEYES - STATION NO. 05LL005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	---	---		
1959	---	12.3 B ON MAR 29 5.38B ON APR 09	0 B ON MAR 01 *	---	1958 1959
1960	---	130 ON APR 16	---		
1961	---	2.38 ON APR 24	0 ON JUL 08	---	1960
1962	---	37.1 ON APR 20	0 B ON DEC 26	---	1961
1963	---	21.8 B ON MAR 25	0 B ON JAN 01	---	1962
1964	---	12.7 B ON APR 10	---	---	1963 1964
1965	---	95.1 ON APR 14	0.102B ON JAN 01	93 000	1965
1966	---	38.5 B ON APR 02	0.025 ON OCT 10	56 000	1966
1967	---	67.4 B ON APR 16	0.025 ON AUG 30	59 300	1967
1968	---	13.6 B ON MAR 30	0.068B ON JAN 08	23 500	1968
1969	123 AT 06:05 CST ON APR 14	114 ON APR 13	0.142B ON JAN 01	125 000	1969
1970	243 AT 20:36 CST ON APR 26 *	207 ON APR 27 *	0 B ON JAN 04	177 000	1970
1971	28.9 AT 20:26 CST ON JUL 13	24.9 ON JUL 13	0.255B ON MAR 02	94 700	1971
1972	---	33.4 ON APR 18	0.057 ON DEC 16	74 300	1972
1973	---	15.3 ON SEP 06	0.116 ON JUL 23	31 300	1973
1974	157 AT 10:31 CST ON APR 18	140 ON APR 18	0.093 ON SEP 21	146 000	1974
1975	66.3 AT 23:20 CST ON APR 30	58.6 ON MAY 01	0.101 ON JUL 14	97 900	1975
1976	---	66.5 ON APR 11	0.015 ON SEP 09	101 000	1976
1977	12.3 AT 10:00 CST ON JUL 13	11.8 ON JUL 13	0.125B ON JAN 29	36 100	1977
1978	---	26.0 B ON APR 10	0.068 ON SEP 11	46 000	1978
1979	199 AT 02:23 CST ON APR 23	101 ON APR 23	0.052 ON SEP 25	172 000	1979
1980	16.6 AT 20:08 CST ON APR 09	12.8 ON APR 09	0.057 ON AUG 02	25 500	1980
1981	---	8.07B ON FEB 21	0.012 ON AUG 30	21 500	1981
1982	26.3 B AT 13:52 CST ON APR 16	16.8 B ON APR 15	0.075B ON JAN 18	33 600	1982
1983	105 AT 11:34 CST ON APR 22	93.3 R ON APR 22	0.080B ON FEB 06	84 400	1983
1984	8.18 AT 10:13 CST ON MAY 07	7.51 ON MAY 07	0.055B ON DEC 27	19 200	1984
1985	18.9 B AT 09:02 CST ON APR 08	15.6 B ON APR 08	0.060B ON FEB 11	29 800	1985
1986	46.7 AT 22:16 CST ON MAR 31	39.5 ON APR 01	0.092 ON AUG 29	70 500	1986
1987	76.6 AT 17:26 CST ON APR 07	63.5 ON APR 08	0.120B ON DEC 31	63 400	1987
1988	7.83B AT 18:52 CST ON APR 06	6.36B ON APR 06	0.033 ON AUG 01	11 900	1988
1989	2.12B AT 17:52 CST ON APR 04	1.54B ON APR 05	0.016 ON AUG 11	8 430	1989
1990	17.6 B AT 18:23 CST ON APR 01	14.9 B ON APR 02	0.030 ON SEP 16	29 200	1990
				66 600	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1989

WHITEMUD RIVER NEAR WOODSIDE - STATION NO. 05LL006

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	13.1	3.62	1.61	1.63	0.185	0.209	1.12	---	---	---	1958
1959	---	---	0.573	7.39	4.86	1.96	0.935	0.430	1.06	2.95	---	---	2.51	1959
1960	---	---	0.538	71.9	31.9	9.27	2.44	1.18	0.731	0.853	---	---	14.7	1960
1961	---	---	1.20	5.22	3.33	1.98	0.416	0.059	0.349	0.644	---	---	1.89	1961
1962	---	---	0.160	17.1	7.15	3.37	0.652	1.96	3.31	2.20	---	---	4.45	1962
1963	---	---	7.32	12.9	6.48	12.6	8.04	2.53	1.15	1.43	---	---	6.53	1963
1964	---	---	0.138	10.9	7.94	3.31	1.88	0.930	1.88	1.34	---	---	3.51	1964
1965	---	---	0.238	27.0	10.3	7.51	4.39	2.11	4.54	3.48	---	---	7.37	1965
1966	---	---	2.97	24.7	14.7	6.49	2.05	1.08	0.777	0.991	---	---	6.67	1966
1967	---	---	0.798	26.3	14.4	5.98	1.53	0.271	0.087	0.516	---	---	6.19	1967
1968	---	---	2.21	7.53	5.72	2.95	1.22	2.53	3.31	2.42	---	---	3.47	1968
1969	---	---	0.377	51.7	22.8	9.56	17.3	6.19	2.79	3.78	---	---	14.2	1969
1970	---	---	0.691	56.6	116	24.2	9.97	3.59	3.67	3.50	---	---	27.2	1970
1971	---	---	0.629	18.9	10.6	18.6	17.2	4.22	2.33	6.31	---	---	9.81	1971
MEAN	---	---	1.37	25.1	18.7	7.81	4.98	1.95	1.87	2.25	---	---	8.35	MEAN

LOCATION - LAT 50 09 16 N LONG 098 41 51 W

DRAINAGE AREA, 6 230 km²
REGULATED SINCE 1960

WHITEMUD RIVER NEAR WOODSIDE - STATION NO. 05LL006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958					
1959	---	39.1 B ON APR 01	---	---	1958
		14.9 ON APR 07	0.014B ON MAR 01	53 100	1959
1960	---	200 ON APR 17			
1961	---	8.50 ON MAY 06	0.481 ON SEP 27	311 000	1960
1962	---	65.1 ON APR 22	0.023 ON AUG 19	40 100	1961
1963	---	51.3 B ON MAR 26	0.028 ON JUL 03	94 200	1962
1964	---	25.6 B ON APR 15	0 B ON MAR 01 *	138 000	1963
			0.113B ON APR 01	74 400	1964
1965	---	126 B ON APR 17			
1966	---	58.3 ON APR 06	0.170B ON MAR 01	156 000	1965
1967	---	66.0 B ON APR 20	0.195 ON AUG 04	141 000	1966
1968	---	19.1 B ON APR 01	0.040 ON SEP 15	131 000	1967
1969	---	107 ON APR 15	0.122 ON JUL 10	73 500	1968
			0.377B ON MAR 01	301 000	1969
1970	---	326 ON APR 29 *			
1971	---	51.5 B ON APR 11	0.691B ON MAR 01	576 000	1970
			0.629B ON MAR 01	208 000	1971
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		177 000	MEAN

WHITESHELL RIVER AT OUTLET OF JESSICA LAKE - STATION NO. 05PG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	2.31	5.00	10.1	5.85	2.87	1.50	1.02	0.770	---	---	---	1960
1961	---	---	1.37	1.53	2.81	1.71	0.269	0.245	0.082	0.217	---	---	---	1961
1962	---	---	---	---	15.1	21.0	8.28	0.49	8.82	---	---	---	---	1962
1963	---	---	---	6.09	5.56	9.14	7.14	3.97	1.62	---	---	---	---	1963
1964	---	---	---	4.03	11.0	6.30	5.06	5.79	6.00	5.67	4.96	3.58	---	1964
1965	2.59	1.97	2.43	7.55	14.1	12.5	9.61	7.00	6.10	8.97	---	---	---	1965
1966	0.441	0.268	0.466	10.7	19.8	18.0	11.7	4.43	4.39	3.11	1.95	1.60	6.42	1966
1967	1.43	1.39	1.57	9.31	14.0	6.64	1.25	1.02	3.32	1.02	1.12	1.66	3.64	1967
1968	1.21	1.18	1.14	5.16	5.22	6.58	2.15	4.19	3.34	4.13	6.35	4.39	4.26	1968
1969	3.27	2.67	2.62	5.15	8.74	2.77	3.02	2.50	1.92	1.78	3.98	2.48	3.41	1969
1970	0.440	0.898	0.774	3.44	15.8	13.9	3.38	1.60	1.87	2.28	8.53	5.59	4.88	1970
1971	3.38	1.84	1.88	7.90	12.5	5.69	1.59	0.685	0.131	0.093	4.10	2.81	3.56	1971
1972	1.76	1.15	1.22	3.43	3.79	3.67	0.475	0.381	0.450	0.830	5.17	2.03	1.96	1972
1973	1.53	1.24	0.777	0.104	0.084	0.339	1.23	2.47	5.55	10.1	10.5	6.99	3.40	1973
1974	4.03	2.97	2.53	10.6	34.4	28.4	4.27	1.75	6.04	6.59	4.01	2.76	9.04	1974
1975	2.30	2.02	2.08	4.30	11.1	7.19	5.72	1.47	1.92	2.01	0.977	0.979	3.52	1975
1976	1.09	1.03	1.09	5.82	8.52	4.39	1.59	0.213	0.243	0.160	0.096	0.084	2.03	1976
1977	0.081	0.073	0.079	0.069	0.531	6.42	5.75	2.81	3.24	5.52	5.43	6.61	3.07	1977
1978	5.55	3.89	2.90	6.42	19.1	8.72	2.00	0.760	0.781	1.98	1.94	1.57	4.69	1978
1979	1.08	1.02	1.18	3.09	14.4	10.4	1.22	0.347	0.326	1.74	1.97	1.91	3.24	1979
1980	1.51	1.16	0.932	1.28	2.39	1.12	0.332	0.229	1.71	2.59	2.77	2.28	1.53	1980
1981	1.36	1.28	0.276	0.074	0.085	0.454	1.34	0.940	1.77	5.26	5.35	2.75	1.85	1981
1982	2.08	1.39	1.49	3.47	10.3	7.95	2.46	1.49	1.13	3.86	3.08	2.09	3.35	1982
1983	1.66	1.42	1.62	1.27	2.37	5.42	4.10	0.411	0.390	2.37	1.76	1.15	1.83	1983
1984	0.649	0.540	0.489	0.177	0.130	3.92	5.24	1.97	0.365	1.65	4.39	4.13	1.98	1984
1985	4.10	2.80	2.32	0.379	8.59	3.85	3.23	1.77	4.74	5.03	5.76	4.78	3.96	1985
1986	3.58	2.62	2.38	6.38	19.2	5.31	1.13	0.918	0.742	2.74	0.598	0.772	1.88	1986
1987	0.744	0.687	0.873	3.79	2.44	1.10	0.449	0.516	0.295	0.258	0.256	0.219	0.966	1987
1988	0.135	0.167	0.422	0.496	0.336	0.272	0.571	0.391	0.280	0.178	0.269	0.392R	0.310R	1988
1989	0.636	0.697	0.705	3.71	12.6	11.2	11.5	5.07	3.80	2.81	2.33	1.91	4.78	1989
1990	---	---	1.44	1.14	3.57	12.3	14.3	5.49	2.16	1.11	0.708	0.629	---	1990
MEAN	1.87	1.45	1.40	4.06	9.40	7.47	4.10	2.28	2.40	2.93	3.40	2.58 R	3.40 R	MEAN

LOCATION - LAT 50 02 20 N LONG 095 30 20 W

DRAINAGE AREA, 804 km²
REGULATED

R - REVISED SINCE JAN 01 1989

WHITESHELL RIVER AT OUTLET OF JESSICA LAKE - STATION NO. 05PG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	11.9 ON MAY 04	---	---	1960
1961	---	6.60 ON APR 02	0.028E ON SEP 03	---	1961
1962	---	31.4 ON JUN 04	---	---	1962
1963	---	9.85 ON JUN 12	---	---	1963
1964	---	12.7 ON MAY 15	---	---	1964
1965	---	16.1 ON MAY 17	---	---	1965
1966	---	21.1 ON MAY 07	0.210E ON MAR 23	203 000	1966
1967	---	15.2 E ON MAY 07	0.289 ON JUL 27	115 000	1967
1968	---	13.4 ON JUN 17	1.13 E ON FEB 26	135 000	1968
1969	9.77 AT 07:30 CST ON MAY 05	9.74 ON MAY 05	1.03 ON JUN 04	108 000	1969
1970	19.8 AT 08:36 CST ON JUN 01	19.7 ON JUN 01	0.153 ON JAN 22	154 000	1970
1971	14.8 AT 18:18 CST ON MAY 11	14.7 ON MAY 15	0.074 ON SEP 26	112 000	1971
1972	14.5 AT 19:44 CST ON OCT 31	12.6 ON NOV 01	0.278 ON AUG 11	61 900	1972
1973	12.9 AT 22:39 CST ON OCT 13	12.5 ON OCT 14	0.071 ON MAY 13	107 000	1973
1974	42.5 AT 15:00 CST ON MAY 24 *	42.2 ON MAY 24 *	0.665 ON AUG 09	285 000	1974
1975	12.0 AT 11:55 CST ON MAY 19	11.9 ON MAY 19	0.739 ON AUG 07	111 000	1975
1976	14.7 AT 14:01 CST ON APR 26	13.9 ON APR 27	0.079 ON NOV 23	64 100	1976
1977	15.3 AT 20:11 CST ON JUN 20	14.2 ON JUN 21	0.026 ON APR 29 *	96 800	1977
1978	25.8 AT 15:47 CST ON MAY 03	24.5 ON MAY 04	0.606 ON OCT 12	148 000	1978
1979	21.1 AT 17:47 CST ON MAY 17	20.0 ON MAY 18	0.293 ON SEP 10	102 000	1979
1980	5.57 AT 19:54 CST ON SEP 22	5.20 ON SEP 23	0.169 ON SEP 05	48 200	1980
1981	11.5 AT 15:55 CST ON OCT 13	10.3 ON OCT 14	0.027 ON MAY 02	58 300	1981
1982	13.1 AT 17:52 CST ON MAY 19	13.0 ON MAY 20	0.871 ON AUG 17	106 000	1982
1983	7.89 AT 17:56 CST ON OCT 11	7.53 ON JUN 02	0.268 ON APR 29	57 700	1983
1984	9.77 AT 13:02 CST ON OCT 24	7.71 ON OCT 25	0.040 ON MAY 06	62 500	1984
1985	15.3 AT 17:25 CST ON MAY 14	14.4 ON MAY 15	0.166 ON APR 10	125 000	1985
1986	24.4 AT 23:33 CST ON MAY 09	23.4 ON MAY 10	0.373 ON NOV 03	122 000	1986
1987	6.78 AT 14:54 CST ON APR 22	6.37 ON APR 23	0.145B ON DEC 30	30 500	1987
1988	0.743 AT 14:33 CST ON APR 16	0.722 ON APR 16	0.124 ON JAN 05	9 800	1988
1989	18.9 AT 16:40 CST ON JUN 26	17.7 ON JUN 27	0.488 ON JAN 01	151 000	1989
1990	17.8 AT 03:11 CST ON JUL 07	17.5 ON JUL 07	0.587 ON DEC 31	---	1990
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		107 000	MEAN

WILD GOOSE CREEK NEAR DEAD CREEK NORTH OF PINAWA - STATION NO. 05PF066

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1986	0	0	0.002	0.010	0.002	0	0	0	0	0	0	0	0.001	1986
1987	0	0	0.003	0.003	0	0	0	0	0	0	0	0	0	1987
1988	0	0	0	0.003	0.001	0	0.001	0	0	0	0	0	0	1988
1989	0	0	0	0.006	0.002	0.003	0	0	0	0	0	0	0.001	1989
1990	0	0	0.002	0.002	0.001	0.010	0	0	0	0	0	0	0.001	1990
MEAN	0	0	0.001	0.005	0.001	0.003	0	0	0	0	0	0	0.001	MEAN

LOCATION - LAT 50 15 00 N
LONG 095 52 54 W

DRAINAGE AREA, 0.43 km^2
NATURAL FLOW

DATA CONTRIBUTED BY - ATOMIC ENERGY OF CANADA

WILD GOOSE CREEK NEAR DEAD CREEK NORTH OF PINAWA - STATION NO. 05PF066

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1986	0.058 ON MAR 31 *	0.050 ON MAR 31	0 ON JAN 01 *	38.4	1986
1987	---	0.016B ON APR 06	0 ON JAN 01	15.0	1987
1988	---	0.018 ON APR 05	0 ON JAN 01	12.8	1988
1989	---	0.025 ON APR 22	0 ON JAN 01	28.5	1989
1990	---	0.127A ON JUN 20 *	0A ON JAN 01	41.5	1990
	A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		27.2	MEAN

WILLOW CREEK NEAR CHATER - STATION NO. 05MH011

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	0.883	1.81	0.924	0.094	0.048	0	0	0	---	---	0.468	1966
1967	---	---	0	3.08	0.433	0.021	0.004	0	0	0	---	---	0.435	1967
1968	---	---	0.703	0.136	0.023	0.007	0.008	0.021	0.171	0.045	---	---	0.140	1968
1969	---	---	0	12.1	1.06	0.213	2.02	0.179	0.014	0.018	---	---	1.92	1969
1970	---	---	0.008	13.6	3.29	0.462	0.107	0.026	0.015	0.028	---	---	2.16	1970
1971	---	---	0	1.71	0.726	2.98	3.19	0.100	---	---	---	---	---	1971
1972	---	---	1.27	5.27	0.666	0.290	0.179	0.031	0.001	0.001	---	---	0.955	1972
1973	---	---	0.042	0.023	0.036	0.029	0.092	0.039	0.049	0.111	---	---	0.053	1973
1974	---	---	0	13.1	3.12	0.486	0.007	0	0	0	---	---	2.06	1974
1975	---	---	0	4.76	1.35	0.550	0.024	0.105	0.221	0.118	---	---	0.879	1975
1976	---	---	0.010	14.1	0.424	0.249	0.057	0	0	0	---	---	1.82	1976
1977	---	---	0.004	0.004	0.019	0.008	0.041	0.001	0.021	0.073	---	---	0.021	1977
1978	---	---	0.320	4.89	0.554	0.233	0.007	0	0	0	---	---	0.494	1978
1979	---	---	0	8.08	2.17	0.421	0.006	0	0	0	---	---	1.32	1979
1980	---	---	0	0.054	0.001	0	0	0.400	0.043	0.011	---	---	0.064	1980
1981	---	---	0.264	0.027	0.016	0.009	0.001	0	0	0	---	---	0.040	1981
1982	---	---	0.148	2.85	0.105	0.077	0.292	0.057	0.001	0.070	---	---	0.443	1982
1983	---	---	0.006	8.04	0.322	0.161	0.137	0.011	0	0	---	---	1.06	1983
1984	---	---	0.053	0.018	0.105	0.218	0.006	0	0	0	---	---	0.050	1984
1985	---	---	2.00	1.77	0.015	0.001	0	0.247	0.165	0.060	---	---	0.531	1985
1986	---	---	2.91	2.15	2.09	0.080	0.090	0.013	0	0	---	---	0.919	1986
1987	---	---	0.087	6.28	0.181	0.038	0.002	0	0	0	---	---	0.807	1987
1988	---	---	0	0.001	0.002	0	0.009	0	0	0	---	---	0.001	1988
1989	---	---	0	0.520	0.002	0	0	0	0	0	---	---	0.064	1989
1990	---	---	1.48	1.28	0.147	0.119	0.001	0	0	0	---	---	0.378	1990
MEAN	---	---	0.408	4.15	0.712	0.270	0.253	0.049	0.029	0.022	---	---	0.712	MEAN

LOCATION - LAT 49 51 32 N LONG 099 49 34 W DRAINAGE AREA, 608 km² NATURAL FLOW

WILLOW CREEK NEAR CHATER - STATION NO. 05MH011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	9.20 E ON APR 01	0 B ON MAR 01 *	9 910	1966
1967	---	11.9 B ON APR 14	0 B ON MAR 01	9 220	1967
1968	---	3.82 B ON MAR 27	0 B ON MAR 01	2 960	1968
1969	---	77.9 ON APR 13	0 B ON MAR 01	40 700	1969
1970	---	58.3 ON APR 25	0.006E ON AUG 28	45 700	1970
1971	---	27.9 ON JUL 12	0 B ON MAR 01	---	1971
1972	---	25.7 B ON APR 10	0 B ON MAR 01	20 200	1972
1973	---	0.294 ON SEP 05	0 B ON MAR 01	1 110	1973
1974	---	80.4 ON APR 18 *	0 B ON MAR 01	43 600	1974
1975	---	32.0 ON APR 29	0 B ON MAR 01	18 600	1975
1976	---	56.9 B ON APR 07	0 ON AUG 03	38 600	1976
1977	---	0.343 ON JUL 14	0 B ON MAR 01	454	1977
1978	---	15.0 B ON APR 06	0 B ON MAR 01	10 400	1978
1979	---	71.4 B ON APR 21	0 B ON MAR 01	27 900	1979
1980	4.04 AT 04:41 CST ON AUG 22	3.65 ON AUG 22	0 B ON MAR 01	1 350	1980
1981	---	0.818B ON MAR 17	0 ON JUL 19	844	1981
1982	---	10.2 B ON APR 15	0 B ON MAR 01	9 390	1982
1983	43.9 B AT 09:24 CST ON APR 09	35.8 B ON APR 10	0 B ON MAR 01	22 500	1983
1984	9.64 AT 09:04 CST ON JUN 16	4.25 ON JUN 16	0 B ON MAR 01	1 050	1984
1985	13.8 B AT 12:30 CST ON MAR 25	12.2 B ON MAR 25	0 B ON MAR 01	11 200	1985
1986	25.1 B AT 04:28 CST ON MAR 29	21.5 B ON MAR 29	0 ON JUL 09	19 400	1986
1987	50.6 AT 08:00 CST ON APR 06 *	45.3 ON APR 06	0 B ON MAR 01	17 100	1987
1988	0.085 AT 17:30 CST ON JUL 09	0.074 ON JUL 10	0 B ON MAR 01	30.6	1988
1989	4.38 B AT 18:32 CST ON APR 04	3.91 B ON APR 04	0 B ON MAR 01	1 350	1989
1990	20.5 AT 11:56 CST ON MAR 31	16.9 ON MAR 31	0 B ON MAR 01	8 010	1990
				15 100	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WILLOW CREEK NEAR GIMLI - STATION NO. 05SB002

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	2.69	0.799	0.144	0.001	0.034	0.008	0	---	---	0.900	1960
1961	---	---	0.064	0.781	0.118	0.009	0	0	0	0	---	---	0.240	1961
1962	---	---	0	0.513	0.238	0.239	0.017	1.61	0.081	0.028	---	---	0.245	1962
1963	---	---	0.422	2.32	1.14	3.77	---	---	---	---	---	---	2.63	1963
1964	---	---	0	0.343	---	---	---	---	---	---	---	---	---	1964
1966	---	---	0.078	0.980	1.56	0.030	0.016	0	0	0	---	---	0.665	1966
1967	---	---	0	3.60	1.38	0.013	0.001	0.001	0	0	---	---	1.24	1967
1968	---	---	0.081	0.149	0.075	0.041	0.039	0.213	0.063	0.088	---	---	0.086	1968
1969	---	---	0	3.31	1.22	0.387	0.029	0.021	0.003	0.003	---	---	1.22	1969
1970	---	---	0	1.57	0.905	0.172	0.017	0	0	0	---	---	0.659	1970
1971	---	---	0	0.956	0.209	0.024	0.115	0	0	0.004	---	---	0.294	1971
1972	---	---	0	1.45	0.089	0.005	0	0	0	0	---	---	0.380	1972
1973	---	---	0.100	0.010	0.003	0.401	---	---	---	---	---	---	0.127	1973
1974	---	---	0	11.2	8.47	0.778	---	---	---	---	---	---	5.10	1974
1975	---	---	0	0.816	0.153	0.050	---	---	---	---	---	---	0.252	1975
1976	---	---	0	7.00	0.726	0.099	---	---	---	---	---	---	1.93	1976
1977	---	---	0	0.041	0.028	0.079	---	---	---	---	---	---	0.037	1977
1978	---	---	0	6.81	1.03	0.220	---	---	---	---	---	---	2.00	1978
1979	---	---	0	3.88	6.03	1.46	---	---	---	---	---	---	2.84	1979
1980	---	---	0	0.431	0	0	---	---	---	---	---	---	0.106	1980
1981	---	---	0.080	0.174	0.006	0.006	---	---	---	---	---	---	0.066	1981
1982	---	---	0.079	3.37	0.436	0.288	---	---	---	---	---	---	1.03	1982
1983	---	---	0.061	3.04	0.234	0.489	---	---	---	---	---	---	0.943	1983
1984	---	---	0.051	0.205	0.016	0.051	---	---	---	---	---	---	0.080	1984
1985	---	---	0.306	0.749	0.062	0.007	---	---	---	---	---	---	0.279	1985
1986	---	---	0.474	3.18	2.22	0.019	---	---	---	---	---	---	1.47	1986
1987	---	---	0	0.631	0.010	0	---	---	---	---	---	---	0.158	1987
1988	---	---	0	0.715	0.009	0.005	---	---	---	---	---	---	0.179	1988
1989	---	---	0	0.096	0.001	1.15	---	---	---	---	---	---	0.306	1989
1990	---	---	0.063	0.509	0.240	1.02	---	---	---	---	---	---	0.453	1990
MEAN	---	---	0.062	2.15	0.945	0.378	0.024	0.190	0.016	0.012	---	---	0.894	MEAN

LOCATION - LAT 50 34 50 N LONG 097 02 40 W DRAINAGE AREA, 253 km² NATURAL FLOW

REMARKS - PUBLISHED AS "OSIER CREEK" PRIOR TO 1979. AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

WILLOW CREEK NEAR GIMLI - STATION NO. 05SB002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	6.40 B ON APR 16	0B ON MAR 01 *	9 480	1960
1961	---	1.73 ON APR 21	0B ON MAR 01	2 530	1961
1962	---	2.72 ON APR 24	0B ON MAR 01	3 590	1962
1963	---	12.3 B ON APR 08	0B ON MAR 01	27 700	1963
1964	---	---	0B ON MAR 01	---	1964
1966	---	4.73 ON MAY 04	0B ON MAR 01	7 010	1966
1967	---	11.7 ON APR 30	0B ON MAR 01	13 100	1967
1968	---	1.64 E ON MAR 30	0B ON MAR 01	911	1968
1969	---	10.7 ON APR 14	0B ON MAR 01	12 900	1969
1970	---	5.21 ON APR 18	0B ON MAR 01	6 940	1970
1971	---	3.17 B ON APR 14	0B ON MAR 01	3 100	1971
1972	---	6.61 ON APR 16	0B ON MAR 01	4 010	1972
1973	---	2.02 ON JUN 21	0B ON MAR 01	1 340	1973
1974	---	37.7 ON APR 20 *	0B ON MAR 01	53 800	1974
1975	---	3.11 ON APR 21	0B ON MAR 01	2 660	1975
1976	---	12.2 ON APR 17	0B ON MAR 01	20 400	1976
1977	---	0.864 ON JUN 18	0B ON MAR 01	386	1977
1978	---	15.3 ON APR 14	0B ON MAR 01	21 000	1978
1979	---	11.2 ON APR 28	0B ON MAR 01	30 000	1979
1980	---	1.82 B ON APR 08	0B ON MAR 01	1 120	1980
1981	0.420 AT 14:31 CST ON APR 10	0.408 ON APR 10	0B ON MAR 01	698	1981
1982	9.62 AT 00:40 CST ON APR 15	8.83 B ON APR 15	0B ON MAR 01	10 800	1982
1983	8.85 AT 14:34 CST ON APR 06	8.78 B ON APR 05	0B ON MAR 01	9 940	1983
1984	0.756 AT 18:30 CST ON MAR 30	0.631B ON MAR 30	0B ON MAR 01	840	1984
1985	3.16 B AT 23:39 CST ON MAR 31	2.54 B ON APR 01	0B ON MAR 01	2 940	1985
1986	9.93 B AT 20:34 CST ON APR 01	9.50 B ON APR 01	0B ON MAR 01	15 500	1986
1987	---	1.51 B ON APR 06	0B ON MAR 01	1 660	1987
1988	---	4.51 B ON APR 03	0B ON MAR 01	1 890	1988
1989	10.2 AT 05:03 CST ON JUN 13 *	8.34 ON JUN 13	0B ON MAR 01	3 220	1989
1990	4.67 E AT 23:14 CST ON JUN 08	3.65 A ON JUN 09	0B ON MAR 01	4 770	1990
				9 420	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WILSON CREEK NEAR MCCREARY - STATION NO. 05LJ801

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	---	---	0.411	0.076	0.006	0	0.061	---	---	---	---	1959
1960	---	---	---	---	0.877	0.125	0.057	0.061	0.015	---	---	---	---	1960
1961	---	---	---	---	0.366	0.011	0.002	0.001	0.008	---	---	---	---	1961
1962	---	---	---	---	0.323	0.246	0.021	0.063	0.029	---	---	---	---	1962
1963	---	---	---	---	---	0.599	0.358	0.066	0.076	---	---	---	---	1963
1964	---	---	---	---	0.527	0.057	0.019	0.008	0.007	---	---	---	---	1964
1965	---	---	---	0.291	0.687	0.276	0.045	0.024	0.498	0.038	---	---	---	1965
1966	---	---	0.037	0.291	0.598	0.102	0.042	0.209	0.020	0.036	---	---	---	1966
1967	---	---	---	0.431	0.842	0.153	0.023	0.011	0.002	0.044	---	---	---	1967
1968	---	---	---	0.278	0.277	0.148	0.201	0.140	0.112	0.059	---	---	---	1968
1969	0.003	0.006	0.057	0.518	0.200	0.891	0.480	0.078	0.083	0.101	0.031	0.010	0.205	1969
1970	0.008	0.006	0.006	0.084	1.88	0.449	0.143	0.021	0.047	0.063	0.095	0.015	0.237	1970
1971	0.020	0.021	0.021	0.499	0.153	1.04	0.243	0.055	0.053	0.348	0.069	0.022	0.211	1971
1972	0.008	0.004	0.006	0.424	0.364	0.098	0.024	0.020	0.017	0.011	0.006	0.006	0.062	1972
1973	0.004	0.003	0.030	0.135	0.170	0.259	0.085	0.095	0.200	0.233	0.084	0.047	0.112	1973
1974	0.044	0.040	0.037	0.613	0.807	0.213	0.070	0.041	0.043	0.042	0.017	0.014	0.165	1974
1975	0.023	0.019	0.020	0.276	0.542	0.331	0.031	0.285	1.56	0.527	0.087	0.021	0.310	1975
1976	0.010	0.013	0.018	0.866	0.262	0.211	0.048	0.018	0.015	0.011	0.007	0.004	0.122	1976
1977	0.005	0.007	0.006	0.045	0.102	0.040	0.469	0.041	0.418	0.110	0.027	0.023	0.108	1977
1978	0.024	0.010	0.013	0.448	0.255	0.064	0.009	0.006	0.092	0.040	0.045	0.028	0.086	1978
1979	0.051	0.052	0.054	0.279	1.30	0.363	0.058	0.033	0.031	0.008	0.009	0.012	0.189	1979
1980	0.008	0.006	0.004	0.196	0.049	0.024	0.058	0.427	0.047	0.061	0.077	0.018	0.082	1980
1981	0.005	0.005	0.025	0.038	0.130	0.191	0.020	0.007	0.013	0.048	---	---	---	1981
1982	---	---	---	0.674	0.242	0.152	0.092	0.016	0.032	0.336	0.113	---	---	1982
1983	---	---	---	---	0.501	0.202	0.338	0.031	0.014	0.022	---	---	---	1983
MEAN	0.016	0.015	0.024	0.355	0.494	0.253	0.118	0.070	0.140	0.113	0.051	0.018	0.159	MEAN

LOCATION - LAT 50 43 46 N LONG 099 33 15 W DRAINAGE AREA, 22.8 km² NATURAL FLOW

WILSON CREEK NEAR MCCREARY - STATION NO. 05LJ801

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	---	---	0 ON JUL 13 *	---	1959
1960	---	2.29R ON MAY 26	0.012R ON SEP 12	---	1960
1961	---	1.12R ON MAY 05	0 R ON JUL 02	---	1961
1962	---	3.31R ON MAY 30	0 R ON JUN 14	---	1962
1963	---	4.56 ON JUN 10	---	---	1963
1964	---	2.09 ON MAY 10	---	---	1964
1965	---	3.96R ON APR 29	0 ON APR 01	---	1965
1966	---	---	---	---	1966
1967	---	1.61R ON MAY 15	0 ON SEP 16	---	1967
1968	---	1.26 ON JUL 01	0.024R ON OCT 14	---	1968
1969	---	8.35R ON JUN 27	0.003B ON JAN 01	6 450	1969
1970	---	5.90R ON MAY 08	0.006RB ON JAN 26	7 480	1970
1971	---	9.51R ON JUN 06	0.013 ON SEP 28	6 670	1971
1972	---	2.83R ON APR 26	0.001R ON JUN 30	2 600	1972
1973	---	4.23R ON JUN 20	0.003RB ON JAN 11	3 540	1973
1974	---	4.11R ON MAY 11	0.006RB ON NOV 05	5 220	1974
1975	---	16.6 ON SEP 19 *	0 R ON JUL 26	9 760	1975
1976	---	2.75R ON APR 14	0.003RB ON MAR 21	3 870	1976
1977	---	7.74R ON JUL 11	0.001R ON AUG 24	3 410	1977
1978	---	1.92 ON APR 27	0 ON JUL 10	2 710	1978
1979	10.6 AT 00:39 CST ON MAY 17 *	6.18 ON MAY 17	0.003 ON SEP 08	5 960	1979
1980	---	3.00R ON AUG 21	0 ON SEP 13	2 580	1980
1981	---	---	---	---	1981
1982	---	---	---	---	1982
1983	---	---	---	---	1983
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1989		5 020	MEAN

WILSON RIVER NEAR ASHVILLE - STATION NO. 05LJ045

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	---	---	0	22.8	12.5	1.45	0.036	0.001	0	0	---	---	4.56	1979
1980	---	---	0.017	4.85	0.988	0.002	0	0.152	0.131	0.113	---	---	0.658	1980
1981	---	---	0.550	0.770	0.787	1.43	0.104	0.001	0.001	0.003	---	---	0.453	1981
1982	---	---	0.076	5.15	0.518	0.078	0.006	0.232	0.004	0.317	---	---	0.787	1982
1983	---	---	0	19.3	4.82	0.941	0.327	0.010	0.001	0.001	---	---	3.15	1983
1984	---	---	0.216	0.546	0.814	0.194	0.019	0.001	0.001	0.010	---	---	0.225	1984
1985	---	---	0.003	15.2	0.733	0.756	0.068	1.10	0.799	2.48	---	---	2.61	1985
1986	---	---	4.79	10.2	13.4	0.235	0.074	0.066	0.005	0.003	---	---	3.60	1986
1987	---	---	0.874	6.36	0.113	0.012	0.001	0	0	0.001	---	---	0.906	1987
1988	---	---	0.039	4.91	7.14	0.090	0.007	0.001	0	0.001	---	---	1.52	1988
1989	---	---	0.006	0.806	0.024	1.21	0.065	0.001	0.001	0.001	---	---	0.260	1989
1990	---	---	0.508	10.7	3.88	0.710	0.297	0.014	0.001	0.002	---	---	1.99	1990
MEAN	---	---	0.590	8.48	3.73	0.592	0.084	0.132	0.079	0.244	---	---	1.73	MEAN

LOCATION - LAT 51 09 30 N LONG 100 20 00 W DRAINAGE AREA, 669 km² NATURAL FLOW

WILSON RIVER NEAR ASHVILLE - STATION NO. 05LJ045

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	187 AT 03:53 CST ON APR 22 *	163 ON APR 22 *	0 B ON MAR 01 *	96 500	1979
1980	---	13.0 B ON APR 07	0 B ON MAR 01	13 900	1980
1981	8.26 AT 04:00 CST ON MAY 30	7.32 ON MAY 30	0 ON AUG 11	9 580	1981
1982	---	16.9 ON APR 18	0 B ON MAR 01	16 700	1982
1983	182 AT 06:21 CST ON APR 24	154 ON APR 24	0 B ON MAR 01	66 800	1983
1984	2.48 AT 15:32 CST ON APR 03	1.83B ON APR 04	0 B ON MAR 01	4 760	1984
1985	29.8 B AT 15:01 CST ON APR 05	27.5 B ON APR 16	0 B ON MAR 01	55 200	1985
1986	105 A AT 16:30 CST ON MAY 06	79.8 A ON MAY 06	0.001 ON SEP 20	76 200	1986
1987	58.9 AT 10:14 CST ON APR 05	39.3 ON APR 06	0 ON JUL 17	19 200	1987
1988	58.0 AT 00:46 CST ON MAY 03	41.8 ON MAY 03	0 B ON MAR 01	32 200	1988
1989	14.0 AT 18:50 CST ON JUN 13	9.67 ON JUN 13	0 B ON MAR 01	5 490	1989
1990	29.9 B AT 16:22 CST ON APR 04	25.2 B ON APR 01	0 B ON MAR 01	42 100	1990
				36 600	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WILSON RIVER NEAR DAUPHIN - STATION NO. 05LJ011

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	0	17.3	20.7	0.856	2.12	0.879	0.112	0.012	---	---	5.25	1948
1949	---	---	0.085	5.66	0.968	2.37	0.515	0.115	0.003	0.013	---	---	1.20	1949
1950	---	---	0	5.73	4.88	4.42	6.18	0.394	0.016	0.276	---	---	2.73	1950
1951	---	---	0	9.10	5.22	0.666	0.204	0.029	0.062	0.383	---	---	1.94	1951
1952	---	---	0.005	12.2	0.868	0.194	0.016	0	0.541	0.099	---	---	1.71	1952
1953	---	---	---	11.0	9.79	24.1	4.30	0.507	0.367	2.63	1.05	---	---	1953
1954	---	---	0	10.1	7.40	13.1	9.82	0.139	0.895	1.88	0.344	---	5.38	1954
1955	---	---	0	14.7	10.8	6.87	0.721	0.037	0	0.025	---	---	4.10	1955
1956	---	---	0	10.4	19.0	6.32	4.99	0.323	0.161	0.124	---	---	5.15	1956
1957	---	---	0.269	21.6	4.73	0.785	0.126	0.013	0.002	0.026	---	---	3.40	1957
1958	---	---	0.300	1.92	0.166	0.056	0.037	0	0	0	---	---	0.306	1958
1959	---	---	0.365	1.35	0.710	1.63	0.946	0.005	0	0.027	---	---	0.625	1959
1960	---	---	0	16.3	7.94	2.17	0.089	0.005	0	0	---	---	3.28	1960
1961	---	---	0	0.001	0.052	0	0	0	0	0	---	---	0.007	1961
1962	---	---	0	4.28	0.749	0.347	0	0	0	0	---	---	0.662	1962
1963	---	---	1.19	3.47	0.551	2.94	0.598	0.035	0	0	---	---	1.09	1963
1964	---	---	0	7.03	3.28	0.083	0.116	0.004	0	0	---	---	1.30	1964
1965	---	---	0	8.84	3.56	2.05	0.411	0.056	3.27	0.586	---	---	2.32	1965
1966	---	---	0.330	19.0	8.67	1.14	0.808	0.344	0.004	0.002	---	---	3.75	1966
1967	---	---	0.003	16.4	11.3	0.634	0.048	0.006	0.002	0	---	---	3.51	1967
1968	---	---	1.28	2.57	0.177	0.039	0.008	0.013	0.005	0	---	---	0.506	1968
1969	---	---	0	10.0	0.464	2.28	4.06	0.193	0.003	0.004	---	---	2.11	1969
1970	---	---	0.013	16.5	10.4	2.13	2.62	0.598	0.084	0.328	---	---	5.07	1970
1971	---	---	0.040	14.3	1.52	7.30	0.824	0.172	0.003	0.294	---	---	3.01	1971
1972	---	---	2.61	15.0	2.75	0.208	0.031	0.004	0	0.002	---	---	2.54	1972
1973	---	---	0.066	0.285	0.132	0.510	0.046	0.020	0.713	2.26	---	---	0.505	1973
1974	---	---	0.079	32.9	28.3	1.43	0.126	0.005	0.007	0.014	---	---	7.82	1974
1975	---	---	0.010	16.4	5.99	3.70	0.125	0.305	8.75	2.66	---	---	4.68	1975
1976	---	---	0.001	25.2	1.83	11.6	0.707	0.022	0.005	0.001	---	---	4.84	1976
1977	---	---	0.002	0.390	0.188	0.030	0.910	0.146	1.19	0.643	---	---	0.436	1977
1978	---	---	0.070	11.0	2.30	0.392	0.025	0.003	0.002	0.030	---	---	1.70	1978
1980	---	---	0.030	6.44	0.196	0.082	0.128	0.139	0.167	0.073	---	---	0.891	1980
1981	---	---	0.576	1.04	0.917	1.91	0.145	0.004	0	0	---	---	0.570	1981
1982	---	---	0.057	6.08	0.756	0.138	0.053	0.320	0.058	0.319	---	---	0.959	1982
MEAN	---	---	0.224	10.4	5.45	3.01	1.23	0.142	0.483	0.374	0.697	---	2.53	MEAN

LOCATION - LAT 51 12 30 N LONG 100 10 45 W DRAINAGE AREA, 925 km^2 NATURAL FLOW

WILSON RIVER NEAR DAUPHIN - STATION NO. 05LJ011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	70.8 ON APR 25	0 B ON MAR 01 *	111 000	1948
1949	---	12.8 ON APR 12	0 E ON SEP 26	25 400	1949
1950	---	27.8 B ON APR 18	0 B ON MAR 01	57 800	1950
1951	---	35.4 ON APR 30	0 B ON MAR 01	41 100	1951
1952	---	43.9 B ON APR 08	0 B ON MAR 01	36 200	1952
1953	---	64.8 ON JUN 05	---	---	1953
1954	---	54.9 ON JUL 02	0 B ON MAR 01	114 000	1954
1955	---	41.6 ON MAY 06	0 B ON MAR 01	86 900	1955
1956	---	58.0 ON APR 22	0 B ON MAR 01	109 000	1956
1957	---	98.5 ON APR 26	0 B ON MAR 01	71 900	1957
1958	---	7.53 B ON APR 01	0 B ON MAR 01	6 480	1958
1959	---	8.75 ON JUN 19	0 B ON MAR 01	13 200	1959
1960	---	44.5 B ON APR 13	0 B ON MAR 01	69 500	1960
1961	---	0.227 ON MAY 17	0 B ON MAR 01	142	1961
1962	---	18.4 ON APR 20	0 B ON MAR 01	14 000	1962
1963	---	10.7 ON APR 09	0 B ON MAR 01	23 000	1963
1964	---	18.6 ON APR 13	0 B ON MAR 01	27 500	1964
1965	---	27.9 ON APR 14	0 B ON MAR 01	49 000	1965
1966	---	56.1 ON APR 03	0 B ON MAR 01	79 400	1966
1967	---	83.5 ON APR 28	0 E ON AUG 17	74 400	1967
1968	---	7.65 B ON MAR 29	0 B ON MAR 01	10 700	1968
1969	---	51.3 ON APR 14	0 B ON MAR 01	44 600	1969
1970	---	72.8 B ON APR 26	0.009B ON MAR 01	107 000	1970
1971	---	61.4 B ON APR 11	0.001 ON AUG 29	63 600	1971
1972	---	28.9 ON APR 18	0 ON AUG 31	53 700	1972
1973	---	7.65 ON OCT 05	0 B ON MAR 01	10 700	1973
1974	---	174 ON APR 20 *	0 ON AUG 20	165 000	1974
1975	105 AT 23:15 CST ON SEP 20 *	81.3 ON SEP 20	0.002 ON AUG 03	99 100	1975
1976	---	75.3 ON JUN 14	0 B ON MAR 01	102 000	1976
1977	---	8.41 ON SEP 27	0 B ON MAR 01	9 230	1977
1978	---	32.0 B ON APR 11	0 ON AUG 11	36 000	1978
1980	---	26.8 B ON APR 07	0 ON JUN 09	18 900	1980
1981	9.92 AT 03:37 CST ON MAY 31	8.94 ON MAY 31	0 ON AUG 09	12 100	1981
1982	---	17.1 A ON APR 19	0 B ON MAR 01	20 300	1982
				53 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WILSON RIVER NEAR GILBERT PLAINS - STATION NO. 05LJ035

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	6.86	2.79	1.03	0.364	0.106	2.73	0.839	---	---	1.82	1965
1966	---	---	0.264	13.1	6.34	0.688	0.597	0.292	0.001	0	---	---	2.64	1966
1967	---	---	0	12.0	8.80	0.193	0.008	0	0	0	---	---	2.61	1967
1968	---	---	1.48	1.95	0.108	0.016	0.054	0.109	0.001	0	---	---	0.462	1968
1969	---	---	0	7.38	0.212	2.41	3.03	0.019	0.006	0.087	---	---	1.62	1969
1970	---	---	0.003	16.4	17.6	1.51	1.87	0.163	0.103	0.410	---	---	4.74	1970
1971	---	---	0.018	11.5	0.894	4.95	0.757	0.110	0.001	0.296	---	---	2.28	1971
1972	---	---	1.60	12.0	2.10	0.048	0	0	0	0	---	---	1.95	1972
1973	---	---	0.173	0.259	0.127	0.384	0.014	0.010	0.539	1.25	---	---	0.343	1973
1974	---	---	0.071	20.4	22.3	0.810	0.028	0.002	0.004	0.005	---	---	5.44	1974
1975	---	---	0	13.0	3.86	3.14	0.042	0.151	9.47	1.36	---	---	3.82	1975
1976	---	---	0.125	20.6	1.33	7.42	0.459	0.002	0	0	---	---	3.67	1976
1977	---	---	0	0.376	0.193	0.036	0.905	0.054	1.20	0.447	---	---	0.400	1977
1978	---	---	0.053	8.62	1.38	0.099	0.007	0	0.004	0.052	---	---	1.26	1978
MEAN	---	---	0.271	10.3	4.86	1.62	0.581	0.073	1.00	0.339	---	---	2.36	MEAN

LOCATION - LAT 51 07 35 N LONG 100 28 20 W
DRAINAGE AREA, 648 km^2
NATURAL FLOW

WILSON RIVER NEAR GILBERT PLAINS - STATION NO. 05LJ035

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	23.3 ON APR 15	0B ON MAR 01 *	38 500	1965
1966	---	33.1 B ON APR 02	0 ON SEP 08	25 900	1966
1967	---	47.6 ON APR 27	0E ON MAR 01	55 200	1967
1968	---	10.2 B ON MAR 29	0B ON MAR 01	9 790	1968
1969	---	49.8 B ON APR 13	0B ON MAR 01	34 400	1969
1970	---	110 ON MAY 04	0B ON MAR 01	100 000	1970
1971	---	47.0 B ON APR 10	0 ON SEP 24	48 200	1971
1972	---	31.1 ON APR 21	0 ON JUN 25	41 200	1972
1973	---	6.51 ON OCT 04	0B ON MAR 01	7 270	1973
1974	---	135 ON MAY 23 *	0 ON AUG 04	115 000	1974
1975	136 AT 14:56 CST ON SEP 19 *	96.8 ON SEP 19	0B ON MAR 01	80 900	1975
1976	---	59.5 ON APR 10	0 ON AUG 21	77 800	1976
1977	---	7.67 ON SEP 27	0B ON MAR 01	8 460	1977
1978	---	18.2 B ON APR 10	0 ON JUL 29	26 600	1978
				49 900	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WINNIPEG RIVER ABOVE LAMPREY FALLS - STATION NO. 05PF064

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	---	---	1 530	1 090	829	678	675	---	---	---	1956
1957	---	---	---	---	---	743	1 130	954	642	652	724	---	---	1957
1958	---	---	---	---	615	504	628	487	457	569	604	644	---	1958
1959	684	833	785	727	787	1 140	1 260	1 040	829	1 040	1 050	996	931	1959
1960	1 040	972	919	995	996	802	711	676	693	659	668	785	826	1960
1961	792	738	733	640	715	579	536	529	537	---	---	---	---	1961
1962	---	---	---	---	---	1 600	1 340	1 670	1 710	1 230	---	---	---	1962
1963	---	---	---	---	---	1 100	1 190	---	---	---	---	---	---	1963
MEAN	839	848	812	787	778	1 000	986	884	792	804	762	808	879	MEAN

LOCATION - LAT 50 22 00 N LONG 095 20 20 W DRAINAGE AREA, 126 000 km² REGULATED

WINNIPEG RIVER ABOVE LAMPREY FALLS - STATION NO. 05PF064

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1956	---	1 610 ON JUN 16	637E ON SEP 15	---	1956
1957	---	1 330 ON JUL 28	552 ON SEP 16	---	1957
1958	---	---	371 ON SEP 07 *	---	1958
1959	1 390 AT 04:00 CST ON JUL 18 *	1 390 ON JUL 17	634E ON JAN 08	29 400 000	1959
1960	---	1 180 ON JAN 23	578 ON NOV 04	26 100 000	1960
1961	869 AT 11:00 CST ON JAN 07	864 ON JAN 07	---	---	1961
1962	---	2 140E ON SEP 02 *	---	---	1962
1963	---	1 440 ON JUL 08	---	---	1963
				27 800 000	MEAN

E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WINNIPEG RIVER AT MCARTHUR GENERATING STATION - STATION NO. 05PF068

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1987	853	879	879	797	469	335	296	233	213	352	390	545	518	1987
1988	566	574	479	357	261	214	206	182	281	660	843	874	458	1988
1989	907	937	928	954	1 010	1 190	1 720	1 040	712	624	540	690	938	1989
1990	735	736	668	592	492	856	1 080	836	609	483	533	589	684	1990
MEAN	765	782	739	675	558	649	826	573	454	530	577	675	650	MEAN

LOCATION - LAT 50 23 53 N LONG 095 59 50 W REGULATED SINCE 1954 DATA CONTRIBUTED BY - MANITOBA HYDRO

REMARKS - FLOW CALCULATED FROM GENERATION AND SPILL TABLES

WINNIPEG RIVER AT MCARTHUR GENERATING STATION - STATION NO. 05PF068

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1987	---	2 490 ON OCT 01 *	138 ON SEP 05	16 300 000	1987
1988	---	988 ON DEC 20	137 ON AUG 09 *	14 500 000	1988
1989	---	1 910 ON JUL 13	266 ON NOV 04	29 600 000	1989
1990	---	1 180 ON JUL 08	209 ON MAY 05	21 600 000	1990
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		20 500 000	MEAN

WINNIPEG RIVER AT PINE FALLS GENERATING STATION - STATION NO. 05PF069

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1987	847	866	873	822	485	354	319	251	233	307	422	569	527	1987
1988	589	594	501	381	283	235	224	198	298	668	840	876	474	1988
1989	898	933	932	986	1 090	1 260	1 780	1 070	720	630	550	687	962	1989
1990	741	742	677	603	508	921	1 140	854	621	492	537	581	702	1990
MEAN	769	784	746	698	592	693	866	593	468	524	587	678	666	MEAN

LOCATION - LAT 50 34 03 N LONG 096 10 39 W REGULATED SINCE 1951 DATA CONTRIBUTED BY - MANITOBA HYDRO

REMARKS - FLOW CALCULATED FROM PLANT GENERATION AND FROM SPILL TABLES

WINNIPEG RIVER AT PINE FALLS GENERATING STATION - STATION NO. 05PF069

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1987	---	957 ON APR 12	136 ON SEP 20 *	16 600 000	1987
1988	---	1 010 ON DEC 21	137 ON JUL 10	15 000 000	1988
1989	---	1 990 ON JUL 13 *	307 ON NOV 04	30 300 000	1989
1990	---	1 260 ON JUL 12	242 ON MAY 05	22 100 000	1990
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		21 000 000	MEAN

WINNIPEG RIVER AT SLAVE FALLS - STATION NO. 05PF063

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1907	765	648	491	413	462	793	907	887	1 040	1 200	1 210	1 120	829	1907
1908	1 040	1 040	809	807	922	1 180	1 220	1 120	1 020	935	804	660	969	1908
1909	701	684	533	473	575	696	699	695	631	576	579	638	623	1909
1910	715	687	574	1 130	1 500	1 380	1 050	700	556	481	405	367	803	1910
1911	423	374	345	340	420	521	648	739	701	735	648	548	538	1911
1912	568	480	390	381	645	799	747	787	840	961	957	840	700	1912
1913	794	736	529	494	806	952	842	781	709	507	434	409	666	1913
1914	383	371	387	407	520	912	1 030	912	738	697	591	552	627	1914
1915	515	492	448	508	795	921	1 020	989	676	589	601	622	683	1915
1916	663	715	759	741	1 260	1 660	1 890	1 800	1 480	1 270	972	925	1 180	1916
1917	879	1 100	907	907	718	591	437	512	553	548	559	544	685	1917
1918	524	488	498	541	559	655	628	590	549	549	553	593	561	1918
1919	570	512	558	819	712	640	1 060	1 200	991	844	719	580	769	1919
1920	501	527	575	705	982	1 170	1 050	775	625	567	456	433	697	1920
1921	416	394	379	642	1 040	943	820	743	677	709	681	617	673	1921
1922	558	519	475	555	1 160	1 240	994	824	767	623	536	481	728	1922
1923	433	399	469	822	949	767	687	688	674	674	644	575	648	1923
1924	533	514	465	495	649	665	665	580	525	527	477	442	545	1924
1925	419	332	312	351	487	653	786	746	662	601	541	483	533	1925
1926	454	436	424	466	646	720	876	872	716	1 000	1 330	1 020	749	1926
1927	939	919	957	1 130	2 060	2 360	2 410	2 110	1 420	941	832	703	1 400	1927
1928	594	623	660	706	727	702	1 330	1 150	851	987	1 040	908	858	1928
1929	775	781	822	833	665	606	558	476	492	516	535	551	633	1929
1930	515	441	444	482	554	563	507	442	398	352	361	425	457	1930
1931	400	364	347	363	327	331	348	346	343	382	398	411	363	1931
1932	405	395	378	460	618	565	502	397	328	374	420	433	440	1932
1933	442	444	556	1 010	1 020	663	611	531	452	415	479	563	599	1933
1934	602	596	616	696	893	1 120	1 200	1 150	898	827	726	697	836	1934
1935	599	577	522	642	778	763	842	845	807	888	803	740	735	1935
1936	699	704	782	672	926	926	684	576	506	493	500	502	664	1936
1937	515	496	460	512	827	899	983	1 220	897	642	593	618	724	1937
1938	563	549	560	596	1 560	2 080	1 780	751	565	593	583	622	903	1938
1939	600	614	539	540	546	547	582	577	501	467	517	532	546	1939
1940	517	537	484	485	457	481	459	379	342	391	453	443	452	1940
1941	437	410	415	440	586	576	521	505	590	1 760	2 120	1 580	834	1941
1942	1 160	903	770	670	663	739	574	559	780	738	664	644	737	1942
1943	591	657	713	747	1 130	1 770	2 280	1 390	767	916	807	752	1 050	1943
1944	713	724	729	690	711	1 190	1 770	1 340	1 600	832	706	915	994	1944
1945	863	839	798	1 210	1 680	1 140	804	765	696	649	735	770	913	1945
1946	732	755	784	1 060	1 330	1 110	939	770	648	645	733	763	856	1946
1947	781	875	931	965	1 080	1 440	960	1 030	789	679	686	720	987	1947
1948	734	745	759	806	1 450	1 020	717	734	641	598	644	644	792	1948
1949	657	669	649	656	743	620	577	541	539	632	820	829	661	1949
1950	779	772	770	766	1 690	2 710	2 650	2 520	2 040	1 090	951	855	1 470	1950
1951	915	951	967	1 020	1 510	1 330	1 010	691	629	658	688	802	931	1951
1952	899	876	861	844	691	632	707	945	779	636	636	696	767	1952
1953	660	629	619	622	653	894	959	887	697	662	646	684	719	1953
1954	700	709	768	932	1 590	2 440	2 300	1 140	823	791	772	752	1 150	1954
1955	675	663	639	764	845	832	854	747	602	582	644	709	713	1955
1956	720	805	895	1 030	1 110	1 490	1 150	874	695	635	638	674	909	1956
1957	671	692	667	667	824	697	1 120	919	593	591	669	723	738	1957
1958	762	749	719	634	690	480	606	465	406	537	578	618	595	1958
1959	658	813	763	703	748	1 160	1 310	1 060	777	1 000	1 030	1 010	920	1959
1960	1 000	957	903	981	988	791	699	644	663	635	650	764	806	1960
1961	756	713	668	609	698	531	497	426	433	500	553	651	587	1961
1962	657	668	611	656	797	1 540	1 260	1 650	1 650	1 210	849	919	1 040	1962
1963	934	973	920	966	985	1 060	1 180	1 690	886	831	886	940	973	1963
1964	934	933	859	834	992	852	1 420	881	1 250	2 190	1 660	1 210	1 170	1964
1965	1 050	1 070	1 190	1 380	1 500	1 680	1 500	881	857	1 120	1 730	1 270	1 270	1965
1966	1 340	1 360	1 420	1 710	2 260	2 260	1 800	872	937	891	930	933	1 390	1966
1967	867	880	824	843	773	729	727	824	654	671	786	871	787	1967
1968	851	844	799	650	580	1 100	1 770	1 540	1 440	1 560	1 890	1 520	1 210	1968
1969	1 430	1 510	1 500	1 460	1 170	1 320	1 290	1 280	1 350	1 320	1 320	1 310	1 350	1969
1970	1 290	1 280	1 300	1 240	1 620	2 100	1 900	975	940	1 110	1 580	1 610	1 410	1970
1971	1 560	1 490	1 460	1 490	1 410	1 190	940	726	600	714	1 610	1 820	1 250	1971
1972	1 500	1 460	1 490	1 530	1 400	853	610	620	716	729	893	910	1 060	1972
1973	963	999	945	590	456	401	347	496	817	1 090	1 420	1 320	819	1973
1974	1 260	1 270	1 250	1 470	2 200	- 2 650	2 360	1 270	1 190	1 130	1 080	1 260	1 530	1974
1975	1 190	1 330	1 410	1 410	1 380	988	1 270	727	629	604	766	891	1 050	1975
1976	979	938	999	1 020	720	521	405	382	351	372	403	404	620	1976
1977	474	562	556	272	148	122	194	217	444	1 160	1 140	1 420	576	1977
1978	1 340	1 230	1 280	1 300	977	1 060	1 350	998	1 250	1 040	941	990	1 150	1978
1979	996	957	878	989	1 620	1 600	890	577	649	771	782	846	963	1979
1980	905	961	1 040	1 030	735	369	259	269	308	405	538	735	629	1980
1981	818	846	619	368	264	283	507	317	407	574	639	623	520	1981
1982	686	797	660	606	766	1 090	1 000	916	771	905	1 070	1 330	884	1982
1983	1 300	1 130	1 060	956	573	506	610	532	451	620	838	921	790	1983
1984	941	936	862	716	568	835	866	619	542	595	796	916	766	1984
1985	936	936	931	764	1 250	1 930	2 200	1 540	1 440	1 600	1 770	1 340	1 390	1985
1986	1 300	1 270	1 310	1 220	1 620	1 380	739	694	628	789	819	886	1 050	1986
1987	890	910	885	715	453	326	290	232	228	297	406	566	517	1987
1988	585	594	488	354	251	212	193	183	205	693	875	909	468	1988
1989	934	969	955	941	976	1 220	1 850	1 070	742	624	549	711	963	1989

CONTINUED

WINNIPEG RIVER AT SLAVE FALLS - STATION NO. 05PF063 (CONTINUED)

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1990	769	769	681	582	465	794	1 170	873	632	505	547	588	698	1990
MEAN	781	777	757	786	931	1 010	1 020	834	752	771	810	799	836	MEAN

LOCATION - LAT 50 13 30 N
LONG 095 34 15 W

DRAINAGE AREA 125 000 km²
REGULATED SINCE 1907

DATA CONTRIBUTED BY -
CITY OF WINNIPEG HYDRO-ELECTRIC SYSTEM

WINNIPEG RIVER AT SLAVE FALLS - STATION NO. 05PF063

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1907	---				
1908	---	1 250 ON OCT 22	408 ON APR 05	26 100 000	1907
1909	---	1 250 ON JUN 27	614 ON DEC 27	30 700 000	1908
		807 ON JAN 13	456 ON APR 17	19 700 000	1909
1910	---				
1911	---	1 510 ON MAY 07	351 ON DEC 24	25 300 000	1910
1912	---	767 ON OCT 12	306 ON MAR 27	17 000 000	1911
1913	---	1 030 ON OCT 31	337 ON MAR 25	22 100 000	1912
1914	---	985 ON JUN 13	368 ON DEC 27	21 000 000	1913
		1 060 ON JUL 16	331 ON FEB 22	19 800 000	1914
1915	---				
1916	---	1 060 ON JUL 19	411 ON APR 04	21 500 000	1915
1917	---	1 970 ON JUL 24	592 ON JAN 01	37 300 000	1916
1918	---	1 180 ON FEB 13	402 ON JUL 22	21 600 000	1917
1919	---	668 ON JUN 20	456 ON MAR 03	17 700 000	1918
		1 290 ON JUL 28	442 ON MAR 09	24 300 000	1919
1920	---				
1921	---	1 200 ON JUN 07	405 E ON NOV 28	22 100 000	1920
1922	---	1 100 ON MAY 25	379 E ON MAR 01	21 200 000	1921
1923	---	1 420 ON MAY 25	447 ON APR 02	23 000 000	1922
1924	---	1 010 ON MAY 09	396 E ON FEB 05	20 400 000	1923
		725 ON JUN 05	419 ON DEC 19	17 200 000	1924
1925	---				
1926	---	813 ON JUL 04	275 ON APR 05	16 800 000	1925
1927	---	1 440 ON NOV 04	357 ON MAR 21	23 600 000	1926
1928	---	2 450 ON JUL 19	623 ON DEC 31	44 200 000	1927
1929	---	1 450 ON JUL 23	527 ON FEB 05	27 100 000	1928
		900 ON MAR 25	416 ON SEP 15	20 000 000	1929
1930	---				
1931	---	665 ON MAY 26	294 ON NOV 02	14 400 000	1930
1932	---	447 ON DEC 03	274 ON JUN 28	11 500 000	1931
1933	---	668 ON MAY 10	286 ON SEP 25	13 900 000	1932
1934	---	1 250 ON APR 23	362 ON OCT 08	18 900 000	1933
		1 230 ON JUL 15	561 ON JAN 01	26 400 000	1934
1935	---				
1936	---	1 020 ON JUL 29	430 ON MAR 10	23 200 000	1935
1937	---	1 090 ON MAY 25	433 ON OCT 18	21 000 000	1936
1938	---	1 270 ON AUG 07	416 ON MAR 28	22 800 000	1937
1939	---	2 260 ON MAY 30	496 ON APR 03	28 500 000	1938
		648 ON FEB 20	422 ON OCT 15	17 200 000	1939
1940	---				
1941	---	558 ON FEB 11	317 ON SEP 07	14 300 000	1940
1942	---	2 190 ON NOV 06	345 ON MAR 29	26 300 000	1941
1943	---	1 250 ON JAN 02	507 ON AUG 25	23 300 000	1942
1944	---	2 390 ON JUL 19	530 ON JAN 09	33 000 000	1943
		1 920 ON JUL 17	620 ON OCT 29	31 400 000	1944
1945	---				
1946	---	1 790 ON MAY 09	578 ON OCT 27	28 800 000	1945
1947	---	1 390 ON MAY 17	566 ON SEP 07	27 000 000	1946
1948	---	2 040 ON JUL 02	597 ON OCT 11	31 100 000	1947
1949	---	1 720 ON MAY 19	552 ON OCT 13	25 000 000	1948
		900 ON NOV 20	467 ON SEP 03	20 800 000	1949
1950	---				
1951	---	2 780 ON JUN 19	711 ON APR 13	46 300 000	1950
1952	---	1 720 ON MAY 22	575 ON SEP 15	29 400 000	1951
1953	---	1 000 ON AUG 17	524 ON JUN 28	24 200 000	1952
1954	---	1 030 ON JUN 12	580 ON MAR 08	22 700 000	1953
		2 800 ON JUN 30 *	660 ON JAN 08	36 100 000	1954
1955	---				
1956	---	1 050 ON JUN 04	538 ON SEP 10	22 500 000	1955
1957	---	1 590 ON JUN 16	569 ON SEP 20	28 800 000	1956
1958	---	1 370 ON JUL 29	462 ON SEP 15	23 300 000	1957
1959	---	810 ON FEB 27	261 ON SEP 06	18 800 000	1958
		1 420 ON JUL 17	609 ON JAN 06	29 000 000	1959
1960	---				
1961	---	1 140 ON APR 29	544 ON NOV 06	25 500 000	1960
1962	---	827 ON JAN 08	323 ON AUG 28	18 500 000	1961
1963	---	2 110 ON SEP 02	569 ON MAR 13	32 700 000	1962
1964	---	1 460 ON JUL 08	716 ON SEP 29	30 700 000	1963
		2 520 ON OCT 19	657 ON JUN 14	37 000 000	1964
1965	---				
1966	---	1 880 ON NOV 06	762 ON SEP 07	40 100 000	1965
1967	---	2 410 ON MAY 23	759 ON AUG 24	43 900 000	1966
1968	---	943 ON JAN 02	552 ON OCT 08	24 800 000	1967
1969	---	1 990 ON AUG 01	524 ON MAY 31	38 400 000	1968
		1 750 ON JUL 02	900 ON MAY 29	42 700 000	1969
1970	---				
1971	---	2 190 ON JUN 17	756 ON AUG 20	44 600 000	1970
1972	---	2 000 ON DEC 10	498 ON SEP 21	39 400 000	1971
1973	---	1 670 ON MAY 04	507 ON JUL 29	33 400 000	1972
1974	---	1 460 ON NOV 13	280 ON JUL 03	25 800 000	1973
		2 750 ON JUL 01	971 ON NOV 12	48 300 000	1974
1975	---				
1976	---	1 510 ON JUL 14	547 ON OCT 26	33 100 000	1975
1977	---	1 080 ON APR 16	296 ON DEC 19	19 600 000	1976
1978	---	1 500 ON DEC 13	51.0 ON JUN 12 *	18 200 000	1977
1979	---	1 570 ON JUL 17	852 ON MAY 23	36 100 000	1978
		1 790 ON MAY 26	456 ON AUG 13	30 400 000	1979
1980	---				
1981	---	1 080 ON MAR 12	91.0 ON SEP 02	19 900 000	1980
1982	---	915 ON JAN 18	149 ON JUN 08	16 400 000	1981
1983	---	1 430 ON DEC 20	515 ON JAN 02	27 900 000	1982
1984	---	1 420 ON JAN 21	317 ON OCT 02	24 900 000	1983
		987 ON DEC 31	444 ON SEP 01	24 200 000	1984
1985	---				
1986	---	2 430 ON JUL 19	668 ON APR 22	43 800 000	1985
1987	---	1 870 ON MAY 25	572 ON SEP 07	33 200 000	1986
1988	---	954B ON JAN 07	150 ON SEP 06	16 300 000	1987
1989	---	967 ON DEC 18	120 ON JUN 09	14 800 000	1988
		1 950 ON JUL 15	512 ON NOV 17	30 400 000	1989
1990	---	1 270 ON JUL 11	378 ON MAY 05	22 000 000	1990
				26 400 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WINNIPEG RIVER BELOW FOURTH FALLS , SEVEN SISTERS - STATION NO. 05PF015

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1917	---	---	---	---	---	322	203	253	270	282	270	---	---	1917
1918	---	244	246	272	286	375	340	306	276	274	263	281	---	1918
1919	292	232	284	487	417	354	702	833	654	---	---	---	---	1919
MEAN	292	238	265	380	352	350	415	464	403	278	267	281	---	MEAN

LOCATION - LAT 50 07 15 N
LONG 096 00 40 W REGULATED

WINNIPEG RIVER BELOW FOURTH FALLS , SEVEN SISTERS - STATION NO. 05PF015

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1917	---	---	---	---	1917
1918	---	---	---	---	1918
1919	---	---	---	---	1919
				---	MEAN

WINNIPEG RIVER, HEAD OF GRAND DU BONNET FALLS - STATION NO. 05PF044

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1911	---	---	---	---	---	---	---	---	---	750	641	546	---	1911
1912	529	426	---	---	---	---	---	---	---	---	---	---	---	1912
MEAN	529	426	---	---	---	---	---	---	---	750	641	546	---	MEAN

LOCATION - LAT 50 26 20 N
LONG 095 58 30 W REGULATED

WINNIPEG RIVER, HEAD OF GRAND DU BONNET FALLS - STATION NO. 05PF044

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1911	---	---	---	---	1911
1912	---	---	---	---	1912
				---	MEAN

WOODY RIVER AT BOWSMAN - STATION NO. 05LE002

MONTHLY AND ANNUAL MEAN DISCHARGES FOR APR TO NOV IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	---	0.972	3.11	0.959	0.220	0.425	0.283	---	---	1915
1916	---	---	---	5.10	8.63	23.9	7.11	1.29	0.584	1.80	1.27	---	6.19	1916
1917	---	---	---	1.59	21.6	8.03	9.69	1.03	0.657	0.200	---	---	---	1917
1918	---	---	---	3.71	3.44	11.5	12.1	2.45	0.586	0.594	0.939	---	4.42	1918
1919	---	---	---	6.15	3.66	1.08	2.16	0.705	2.28	---	---	---	---	1919
MEAN	---	---	---	4.14	9.33	9.10	6.83	1.29	0.865	0.755	0.831	---	5.31	MEAN

LOCATION - LAT 52 13 00 N
LONG 101 13 00 W DRAINAGE AREA, 1 660 km^2
NATURAL FLOW

WOODY RIVER AT BOWSMAN - STATION NO. 05LE002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO NOV FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	---	---	---	1915
1916	---	30.5 ON JUN 11	0.227 ON SEP 08 *	131 000	1916
1917	---	43.3 ON MAY 09 *	---	---	1917
1918	---	31.4 ON JUL 02	0.227 ON SEP 26	93 200	1918
1919	---	11.6B ON APR 08	---	---	1919
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		112 000	MEAN

WOODY RIVER NEAR BOWSMAN - STATION NO. 05LE004

MONTHLY AND ANNUAL MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	10.7	28.9	51.4	14.1	4.96	10.9	4.43	---	---	---	1954
1955	---	---	---	23.0	26.5	4.47	1.98	0.181	0.044	0.174	---	---	---	1955
1956	---	---	---	9.20	37.3	12.9	8.84	1.62	0.588	0.946	---	---	---	1956
1957	---	---	0.283	15.8	17.2	4.69	1.01	0.422	1.07	1.08	---	---	5.17	1957
1958	---	---	0.059	2.90	2.30	1.83	9.39	1.07	0.286	0.502	---	---	2.30	1958
1959	---	---	0.742	2.92	5.46	5.11	5.89	0.220	2.52	1.92	---	---	3.08	1959
1960	---	---	0.120	14.3	14.5	11.0	2.69	1.20	0.152	0.023	---	---	5.45	1960
1961	---	---	0	0.677	1.43	0.689	0.088	0	0.023	0.024	---	---	0.365	1961
1962	---	---	0	3.13	5.78	0.997	0.117	0.017	0.732	1.62	---	---	1.55	1962
1963	---	---	0.197	8.19	5.13	5.66	0.872	0.281	0.168	0.085	---	---	2.55	1963
1964	---	---	0	2.90	9.70	1.32	0.956	2.03	6.21	4.06	---	---	3.40	1964
1965	---	---	0.325	10.9	15.4	26.0	5.60	2.04	3.40	4.39	---	---	8.45	1965
1966	---	---	0.625	16.1	15.0	16.3	16.8	5.43	4.17	1.98	---	---	9.52	1966
1967	---	---	0.573	2.40	39.7	14.0	1.82	1.03	0.330	0.264	---	---	7.54	1967
1968	---	---	0.763	3.47	2.06	4.90	3.64	10.6	3.67	0.822	---	---	3.74	1968
1969	---	---	0.782	14.6	6.24	3.05	3.68	1.55	0.491	5.94	---	---	4.52	1969
1970	---	---	0.340	10.5	24.5	10.4	10.5	2.20	0.315	2.45	---	---	7.66	1970
1971	---	---	0.513	28.2	10.1	7.83	1.52	0.592	0.098	2.81	---	---	6.40	1971
1972	---	---	0.581	27.2	38.3	4.49	3.61	0.916	0.250	0.467	---	---	9.47	1972
1973	---	---	2.20	4.00	5.17	19.0	7.04	1.55	0.820	4.17	---	---	5.05	1973
1974	---	---	0.586	23.7	40.1	11.3	1.53	1.27	2.61	2.93	---	---	10.5	1974
1975	---	---	0.415	14.1	17.8	15.0	5.30	2.31	4.47	5.90	---	---	8.12	1975
1976	---	---	0.486	15.0	2.87	13.8	7.43	0.884	0.188	0.095	---	---	5.04	1976
1977	---	---	0.163	5.07	3.23	1.64	1.74	4.61	9.32	6.34	---	---	4.00	1977
1978	---	---	0.508	13.8	9.42	2.84	2.81	0.905	2.10	3.50	---	---	4.46	1978
1979	---	---	0.388	20.1	32.5	22.7	2.07	0.142	0.050	0.510	---	---	9.75	1979
1980	---	---	0.022	8.02	1.76	0.390	2.63	6.17	8.19	5.26	---	---	4.04	1980
1981	---	---	0.906	9.20	8.04	1.92	3.66	4.88	0.435	8.20	---	---	4.66	1981
1982	---	---	0.202	4.90	6.85	8.09	18.1	4.99	1.42	4.50	---	---	6.11	1982
1983	---	---	0.452	24.9	27.2	13.2	23.7	4.02	4.75	4.20	---	---	12.8	1983
1984	---	---	7.95	36.5	39.8	23.2	3.15	0.769	0.567	2.83	---	---	14.3	1984
1985	---	---	0.728	28.9	12.1	5.96	2.98	5.44	3.37	4.95	---	---	8.01	1985
1986	---	---	3.11	37.8	19.2	8.33	4.05	0.914	0.470	1.51	---	---	8.74	1986
1987	---	---	0.464	31.4	4.98	4.25	8.50	3.31	1.70	0.620	---	---	7.41	1987
1988	---	---	1.05	52.2	59.7	2.55	0.130	0.039	0.003	0.085	---	---	14.4	1988
1989	---	---	0	3.40	3.44	2.31	1.35	0.326	3.39	1.38	---	---	1.94	1989
1990	---	---	0.442	27.6	21.6	6.87	8.47	0.545	0.126	0.008	---	---	8.17	1990
MEAN	---	---	0.764	15.2	16.6	9.47	5.34	2.14	2.14	2.50	---	---	6.43	MEAN

LOCATION - LAT 52 15 30 N DRAINAGE AREA, 2 110 km²
LONG 101 08 15 W NATURAL FLOW

WOODY RIVER NEAR BOWSMAN - STATION NO. 05LE004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	117 ON JUN 18	---	---	1954
1955	---	56.4 B ON APR 05	---	---	1955
1956	---	53.0 ON MAY 05	---	---	1956
1957	---	41.3 ON APR 25	0.198 ON AUG 13	109 000	1957
1958	---	24.0 ON JUL 07	0.057B ON MAR 01	48 700	1958
1959	---	14.0 ON JUL 01	0 B ON MAR 01 *	65 200	1959
1960	67.4 ON APR 15	58.0 ON APR 15	0.006 ON OCT 29	115 000	1960
1961	---	1.87 ON MAY 15	0 B ON MAR 01	7 730	1961
1962	---	19.8 B ON APR 20	0 B ON MAR 01	12 800	1962
1963	---	32.6 B ON APR 08	0 B ON MAR 01	53 900	1963
1964	---	17.0 ON MAY 15	0 B ON MAR 01	71 900	1964
1965	---	68.5 ON JUN 05	0.113 ON SEP 15	179 000	1965
1966	---	40.7 B ON APR 07	0.292B ON MAR 01	201 000	1966
1967	---	74.8 B ON MAY 07	0 ON JUL 29	160 000	1967
1968	---	20.1 ON AUG 01	0.040B ON MAR 01	79 200	1968
1969	---	51.5 B ON APR 13	0 ON AUG 28	95 700	1969
1970	---	45.3 ON MAY 24	0.042 ON SEP 18	162 000	1970
1971	---	97.7 ON APR 17	0 ON AUG 18	135 000	1971
1972	---	153 ON APR 22	0 ON SEP 23	200 000	1972
1973	45.6 AT 18:02 CST ON JUN 06	43.6 ON JUN 06	0 B ON MAR 01	107 000	1973
1974	---	140 B ON APR 21	0.493 ON AUG 11	222 000	1974
1975	66.5 AT 20:20 CST ON APR 22	61.2 ON APR 22	0.261B ON APR 05	172 000	1975
1976	70.5 AT 06:00 CST ON APR 10	63.4 ON APR 10	0 ON SEP 30	107 000	1976
1977	14.4 AT 14:11 CST ON SEP 26	14.2 ON SEP 26	0 B ON MAR 01	84 600	1977
1978	59.5 AT 00:36 CST ON APR 19	50.4 ON APR 19	0.190B ON MAR 12	94 400	1978
1979	126 AT 10:55 CST ON APR 25	113 ON APR 25	0 ON AUG 29	206 000	1979
1980	---	31.5 B ON APR 14	0 B ON MAR 01	85 500	1980
1981	16.5 AT 23:55 CST ON MAY 02	16.3 ON MAY 03	0 ON SEP 05	98 700	1981
1982	74.8 AT 02:59 CST ON JUL 19	67.1 ON JUL 19	0 B ON MAR 01	129 000	1982
1983	---	170 B ON APR 25	0.435B ON MAR 01	271 000	1983
1984	76.0 AT 02:34 CST ON MAY 22	75.2 ON MAY 21	0 ON AUG 30	302 000	1984
1985	---	52.6 B ON APR 14	0.319B ON MAR 09	169 000	1985
1986	55.4 AT 19:45 CST ON APR 05	47.1 ON APR 11	0.020 ON SEP 25	185 000	1986
1987	138 AT 16:50 CST ON APR 07	123 ON APR 07	0.104B ON MAR 13	157 000	1987
1988	325 AT 16:00 CST ON MAY 03 *	278 A ON MAY 04 *	0 ON JUL 31	305 000	1988
1989	---	8.60B ON APR 22	0 B ON MAR 01	41 000	1989
1990	54.1 AT 11:15 CST ON APR 26	53.7 ON APR 26	0 ON SEP 22	173 000	1990
				136 000	MEAN

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